# Former National Guard Armory Perry, Oklahoma

## **Remediation Final Report**



Prepared by:
Department of Environmental Quality
707 North Robinson
Oklahoma City, Oklahoma 73101



# The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the City of Perry with the Final Remediation Report for the former Perry Armory.



## **DEED NOTICE**

A Notice of Remediation has been filed in the county courthouse and is included in this report. It summarizes remediation performed at the former Perry Armory and describes continuing operation and maintenance and land use restrictions. This completes the DEQ cleanup of the property. For more detail on the activities described below, see enclosed reports.

## **ASBESTOS REMEDIATION**

DEQ and its contractors completed the following activities:

- Asbestos inspection, including:
  - Asbestos containing floor tile mastic and sheetrock bedding mud
- Asbestos abatement, including:
  - Removal of floor tile mastic and sheetrock bedding mud

## TARGETED BROWNFIELD ASSESSMENT

In March 2010, DEQ provided a Phase I Targeted Brownfield Assessment to the City of Perry. A copy of this report is available at http://www.deq.state.ok.us/lpdnew/scapIndex.htm.

## LEAD REMEDIATION

DEQ and its contractors completed the following activities:

- Lead-based paint (LBP) inspection
- Lead dust wipe sampling
- Soil sampling outside of firing range vent fan
- LBP abatement, including:
  - Scraping and sealing downspouts, window lintels, window sills, overhead door frames, walls containing LBP, and handrails
  - Removal and replacement of doors containing LBP
- Indoor firing range cleanup, including:
  - Lead dust cleanup: high efficiency particulate air (HEPA) vacuuming, wet washing, and sealing with appropriate sealant floors, walls, and ceiling
- HEPA vacuuming and wet washing of floors in the building
- Proper disposal of associated waste



Additional copies of this report can be found at http://www.deq.state.ok.us/lpdnew/scapIndex.htm and DEQ Central Records at 707 N Robinson Oklahoma City, Oklahoma 73101.

This publication is issued by the Oklahoma Department of Environmental Quality authorized by Steven A. Thompson, Executive Director. Copies have been prepared at a cost of \$0.053 each. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Department of Libraries. cmullins/LPD/Armories\_SCAP/Armory/Reports/Perry/Armory. 4/2012.



## **DEEDS AND LEGAL DOCUMENTS**

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Book 0710 Page(s) 0325-0328 I-2012-000395 01/31/2012 9:58 am Fee: \$ 19.00 Doc: \$ 0.00 Angela Shaw - Noble County Clerk KL State of Oklahoma



## NOTICE OF REMEDIATION AND EASEMENT FORMER PERRY ARMORY PERRY, OKLAHOMA

LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statutes, 27A § 2-7-123 (C). This Notice does not grant any right to any person not already allowed by law and shall not be construed to authorize or encourage any person or other legal entity to cause or increase pollution, to avoid compliance with state or federal laws and regulations regarding pollution or to escape responsibility for maintaining environmentally sound operations.

The DEQ may take administrative or civil action to recover costs or to compel compliance with the Land Use Restrictions and to prevent damage to or interference with the Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls herein described.

The Land Use Restrictions, Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls shall apply to the Affected Property and to persons who own and/or use the Affected Property until such time as the DEQ files a subsequent Notice of Remediation that changes or removes one or more of them. Activities that cause or could cause damage to the Remedy or the Engineering Controls or recontamination of soil or groundwater are prohibited.

The owner of the Affected Property has the legal authority to create, and does hereby voluntarily create, an easement granted to the DEQ and its employees and agents, for ingress and egress through, across and onto the parking and other outside areas of the Affected Property as they exist from time to time to assure the ongoing protection of the Remedy, Engineering Controls and Land Use Restrictions. This easement touches and concerns the land and runs with the land, is legally binding on all current and future owners and tenants of the Affected Property, and shall only be removed or modified if and when the DEQ modifies or removes the Land Use Restrictions, Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls.

**REASON FOR NOTICE:** The below described Affected Property was contaminated with materials that required remediation pursuant to state and federal environmental laws and regulations. Sampling performed by DEQ contractors, conducted on Sampling performed by DEQ contractors, conducted on December 2, 2009, indicated that there was asbestos, lead-based paint, and lead dust in the building.

**AFFECTED PROPERTY:** The Affected Property is the former Perry Armory located at 309 North 14<sup>th</sup> Street in Perry, Noble County, Oklahoma.

The legal description is as follows:

In Noble County, Oklahoma, lots One (1), Two (2) and Three (3) in Block Seventy-four (74) and Lots One (1), Two (2) and Three (3) in Block Eighty-five (85), also the intervening part of Delaware Street lying between said above described lots, in the Townsite of North and West Perry, Oklahoma, according to the government plat and survey of record.

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**REMEDY:** Remediation activities (Remedy) at the Affected Property included abatement of asbestos, lead-based paint and dust. The remedy was completed on September 9, 2011.

For more detailed information please refer to Former National Guard Armory Perry, Oklahoma Remediation Final Report. To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality Central Records

Mailing Address
P.O. Box 1677
Oklahoma City, Oklahoma 73101

Physical Address 707 N Robinson Oklahoma City, OK 73102

Electronic Address
http://www.deq.state.ok.us/lpdnew/scapIndex.htm

#### DISCLAIMER

- (A) Lead: DEQ did not test every painted surface inside and outside of the building, therefore there is a potential for lead-based paint at the affected property.
- (B) Asbestos: DEQ did not test all building materials inside and outside of the building, therefore there is a potential for asbestos at the affected property.

## CONTINUING OPERATION, MAINTENANCE AND MONITORING

- (A) Lead-based paint encapsulant: Lead-based paint encapsulant was applied over lead-based paint on non-friction surfaces. These areas should be periodically inspected and maintained as appropriate.
- (B) Sealant: Following cleanup, sealant was applied to the Indoor Firing Range (IFR) and room floors where lead-based paint abatement was performed. Sealant should be inspected on a periodic basis and maintained as appropriate.

**LAND USE RESTRICTIONS:** The land use restrictions at the above-described Affected Property are:

- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The IFR should not be used as a child occupied facility. Child-occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child 6 or under spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

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CHANGING LAND USE RESTRICTIONS: Changes to land use restrictions must be approved by the DEQ or its successor agency. The person requesting the change in land use must demonstrate to the DEQ's satisfaction that contamination at the site has reached levels appropriate for the proposed new land uses and that further remediation is not necessary or that additional institutional or engineering controls are adequate to achieve levels protective of human health and the environment for the proposed uses.

The DEQ may require oversight costs, work plans, sampling, reports, and public participation as part of its review of the new information to support the requested change in land use restrictions. The person requesting the change will be required to follow agency procedures effective at the time of the request.

The DEQ at its discretion may determine, based on the new information submitted, that contaminants are present at the Site at levels that will not pose a risk to human health or the environment if the new land use restrictions being requested are allowed. Upon making this determination, the DEQ will file a recordable notice of remediation pursuant to state law in the land records in the in the office of the county clerk where the Site is located designating the new land use restrictions.

This Notice of Remediation and the restrictions and requirements contained herein run with the land and no change of ownership of the Affected Property will change the Land Use Restrictions.

Steven A. Thompson, Executive Director

Oklahoma Department of Environmental Quality

#### **ACKNOWLEDGMENT**

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 3 and day of 20/2, personally appeared Steven A. Thompson to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposed therein set forth.

In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

## VOL 0710 PAGE 328

#### PERRY ARMORY EASEMENT

I hereby certify that I have the legal right to, and do hereby, create an easement and encumber the real property as described in the foregoing Notice of Remediation. I hereby voluntarily grant an easement to the DEQ and its employees and agents, for ingress and egress through, across and onto the Affected Property to assure the ongoing placement, operation and protection of the remedy, engineering controls and land use restrictions described herein above.

Steven A. Thompson, Executive Director
Oklahoma Department of Environmental Quality

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#### **ACKNOWLEDGMENT**

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 30 day of 20/2, personally appeared Steven A. Thompson to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposed therein set forth.

In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

02/17,20/3.

Notary Public

CERTIFICATE OF TRUE COPY State of Oklahoma, County of Nob

State of Oklahoma, County of 1801/131/12 Original filed for record

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#### QUITCLAIM DEED

#### KNOW ALL MEN BY THESE PRESENTS:

THAT THE STATE OF OKLAHOMA, ACTING THROUGH THE OKLAHOMA MILITARY DEPARTMENT, by its Adjutant General, Major General Myles L. Deering, hereinafter referred to as the "Grantor," and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other valuable consideration in hand paid, the receipt of which is hereby acknowledged, does hereby Quitclaim, Grant, Bargain, Sell and Convey unto the OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY, hereinafter referred to as the "Grantee," the following described Real Property, together with any and all improvements thereon and appurtenances thereunto belonging.

Lots One (1), Two (2) and Three (3) in Block Seventy-four (74) and Lots One (1), Two (2) and Three (3) in Block Eighty-five (85), also the intervening part of Delaware Street lying between said above described lots, in the Townsite of North and West Perry, Oklahoma, according to the government plat and survey of record.

Grantee to hold said land for the purposes of environmental characterization and remediation thereof as determined to be necessary by the Oklahoma Department of Environmental Quality, and upon the filing of a recordable Notice of Remediation in the land records of Noble County, the described real property shall transfer to the City of Perry, together with any and all improvements thereon and appurtenances thereunto belonging, for so long as said real property, improvements thereon and appurtenances thereunto belonging are used for a public purpose as required for this transfer by 44 Okla. Stat. Section 233.3(B).

TO HAVE AND TO HOLD the Real Property unto the Grantee, free, clear and discharged of and from all former grants, charges and other encumbrances of whatsoever nature except for the interest specifically granted to the City of Perry herein and any easements of record.

EXECUTED AND DELIV	ERED this 9 day of	<u>fun</u> 2009.
Return to: Headher Ma DEQ Land Prote	MOVY STATE O	OF OKLAHOMA
DEW Land Prote Division P.D. Box le OKlahoma C This Transaction Is Exempt from Document Stamps 68 O.S. § 32020	77 Adji Hen O K 73101	or General Myles L. Deering, utant General of the State of Oklahoma
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Document Stamps, 68 O.S. § 3202(	11).	
STATE OF OKLAHOMA ) COUNTY OF OKLAHOMA )	SS:	Exempt Documentary Stamp Tax OS Title 68, Article 32 Section 3201 or 3202. Paragraph
This instrument was acknown Myles L. Deering, as Adjutant Gene	wledged before me this ral of the State of Oklaho	oma, on behalf of the State of Oklahoma.
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## **MAINTENANCE PLAN**

## MAINTENANCE PLAN FORMER PERRY ARMORY PERRY, OKLAHOMA

The Armory located at 309 North 14<sup>th</sup> Street, Perry, was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Please refer to Attachment 1 for land use restrictions. Sampling performed by DEQ contractors, conducted on December 2, 2009, indicated that there was asbestos, lead-based paint, and lead dust in the building. Remediation activities at the Affected Property included abatement of asbestos, lead-based paint, and lead dust. The remedy was completed on September 9, 2011. The following maintenance plan is to be completed by the owner of the Affected Property. DEQ recommends inspection of remediated areas every 5 years. During site inspections the owner should note any signs of disrepair or improper maintenance. Continuing operation, maintenance and monitoring should include:

- 1. Firing Range Walls, floor and ceiling of indoor firing range were cleaned and sealed with acrylic sealant to remediate surfaces below 40μg/SF for lead. These surfaces need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking.
- 2. All window lintels, window sills, wood overhead doors, down spouts, overhead door frames, and overhead door guards were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking.
- 3. The concrete doorway overhang above both exterior side doors, the concrete ledge below mural in Drill Floor, and walls of Room #4, Room #12, Room #13, Room #15, Room #27, Room #30, Room #31, Room #33, and Room #34 were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking. See Attachment 2 for Perry Armory Floor Plan Map.
- 4. The floors of Room #4 and Room #5 were cleaned and sealed with concrete epoxy paint to remediate surfaces below 40μg/SF for lead. These surfaces need to be resealed if paint shows signs of deterioration, damage, or flaking. See Attachment 2 for Perry Armory Floor Plan Map.

Note -A list of DEQ approved acrylic sealant and elastomeric encapsulants is attached (Attachment 3). DEQ did not test every painted surface and all building materials inside and outside of the building, therefore there is a potential for lead-based paint and asbestos at the affected property.

If you have any questions or concerns feel free to contact me at (405) 702-5115.

Sincerely, Duta Danil

**Dustin Davidson** 

**Environmental Programs Specialist** 

**DEQ Land Protection Division** 

Site Cleanup Assistance Program

## **ATTACHMENT 1**

## **Land use Restrictions**

LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

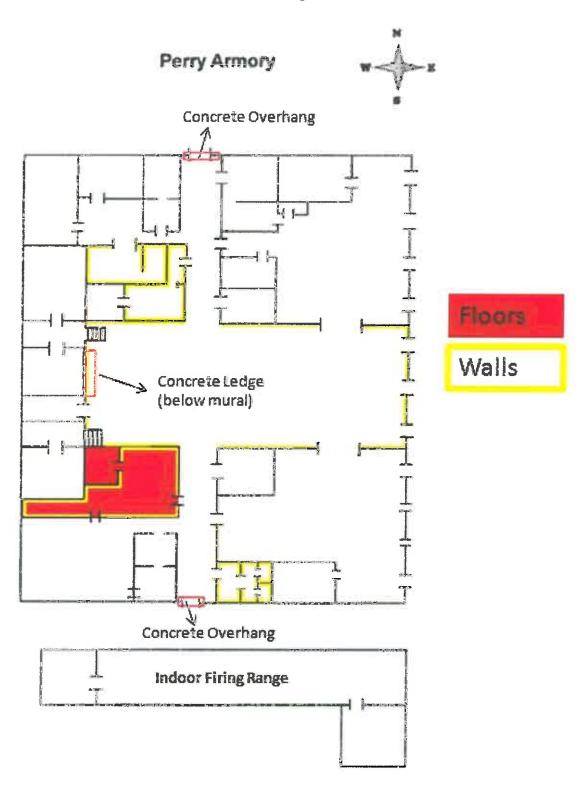
- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The indoor firing range should not be used as a child occupied facility. Child occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child under 6 spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

## **ATTACHMENT 2**

## Floor Plan Map

Labeled areas represent walls and floors with encapsulant and/or sealant.



## **ATTACHMENT 3**

## **DEQ Approved Sealants and Encapsulants List**

## Acrylic Sealant approved by DEQ

## KM-669 Acrylic

## Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer Product(s)	Encapsulant
Coronado Paint Company	LEAD BLOCK <sup>TM</sup>
Dumond Chemicals	LEAD STOP <sup>TM</sup>
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal <sup>TM</sup> I
Encap Systems Corporation	EncapSeal <sup>TM</sup> II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock <sup>TM</sup>
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP <sup>TM</sup>
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

## **INSPECTION REPORTS**

## **Asbestos Inspection**

Perry Armory 309 North 14<sup>th</sup> Street Perry, Oklahoma 73077-6207

December 2, 2009

DCS Contract No.: ID009139-4

#### PREPARED FOR:

Oklahoma Department of Environmental Quality Land Protection Division 707 North Robinson Oklahoma City, OK 73102

#### PREPARED BY:

Marshall Environmental Management, Inc. 1601 Southwest 89<sup>th</sup> Street, Suite A-100 Oklahoma City, Oklahoma 73159

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#### CERTIFICATION

This is to certify, that Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct an Asbestos Inspection of the Perry Armory, for the State of Oklahoma, Department of Environmental Quality, Land Protection Division. The Perry Armory Asbestos Inspection was performed by an Oklahoma Department of Labor Licensed, Asbestos Hazard Emergency Response Act Inspector, Jamie Marshall, of Marshall Environmental Management, Inc, under the direction of Oklahoma Department Of Labor Licensed, Asbestos Hazard Emergency Response Act Management Planner, Dr. Charles L. Marshall, Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The findings and recommendations included in this report are believed to accurately, depict the conditions observed on the date this Asbestos Inspection was performed.

(422m. 1.11	2	10/10
Dr. Charles L. Marshall, CIH, CSP	Date	
Certified Industrial Hygienist - Comprehensive Pra	ctice Certification	#4489
Certified Safety Professional - Comprehensive Prac	ctice Certification	#9941
Registered Professional Environmental Specialist -	State Department of Health	#710
Certified Hazardous Materials Manager, Master Le	vel Certification	#1909
Certified Healthcare Safety Professional, Master Le	evel Certification	#521
EPA AHERA Certifications	#400517 Inspector #500396 Management Pla #2415 Project Designer	nner

and The tre

ODOL License

2-12-10

Jamie Marshall, B.S., Industrial Hygiene Associate

Date

Oklahoma Department of Labor License

#OK-158090 Inspector

#QK-150343 Inspector

**#OKMP-0028 Project Designer** 

#OKMP-0246 Management Planner

## Laboratory Analysis Performed by

Marshall Environmental Management, Inc. (AIHA/NIOSH PAT Lab ID #102334) 1601 SW 89<sup>th</sup> Street, A-100 Oklahoma City, OK 73159

#### **EXECUTIVE SUMMARY**

On December 2, 2009, Marshall Environmental Management, Inc. (MEM) accomplished an Asbestos Inspection of the Perry Armory, so that strategy may be prepared for the abatement of Asbestos Containing Materials (ACM), which may be present, as required by Environmental Protection Agency (EPA) regulations for pre-1980 construction. The analytical results correlating with the samples that were collected as part of this Asbestos Inspection identified the presence of asbestos containing floor tile in rooms-19 and 34, asbestos containing floor mastic in rooms-17 and 19, and asbestos containing bedding-mud in rooms-35 and 24. Chrysotile asbestos was identified in the aforementioned samples in concentrations greater than 1-percent (>1%); this classifies the friable bedding-mud as a "Regulated" ACM. The floor tile and mastic are non-friable materials, therefore these materials are considered non-regulated.

Recommendations will include that all ACM be abated. The abatement and disposal of regulated ACM are required to be treated as regulated response actions covered by EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations. Due to the quantities of friable bedding-mud, a NESHAP notification and Project Design are required prior to the commencement of abatement activities. If the asbestos containing bedding-mud is not abated and remains undisturbed and in good condition a Management Plan should be developed.

Although non-friable asbestos containing floor tile and mastic are considered non-regulated, recommendations will include that the abatement of this material be accomplished by an Oklahoma Department Of Labor (ODOL) Licensed, Asbestos Abatement Contractor, to ensure that Occupational Safety and Health Administration (OSHA) and EPA compliant methods are utilized. Because the floor tile and mastic are non-regulated, EPA regulations do not require that a NESHAP notification be submitted prior to abatement, and due to the floor tile and mastic being classified as "Category I Non-Regulated" the ODOL does not require that a Project Design be submitted prior to the abatement of these materials.

The remainder of this Report includes the Sampling Strategy, the Findings, Conclusions and Recommendations, Limitations of the Survey, the Regulatory Review and the Appendix to this Report.

#### SAMPLING STRATEGY

Each accessible area throughout the Armory was systematically inspected in order to collect samples of building materials suspected of containing asbestos. The sample collection process includes, identifying the type of material suspected of containing asbestos, identifying the location of the material, the condition of the material, the potential for disturbance and the quantity. Suspect ACM that are uniform in color and texture and believed to be applied during the same period are described as "Homogenous". An adequate number of samples are collected from homogenous materials and if laboratory analysis determines that the material contains asbestos, the entire homogenous material is considered an ACM. These procedures are thoroughly documented for assisting, if necessary, with the development of appropriate response actions.

The following are examples of the types of building materials that were visually inspected and sampled during this Asbestos Inspection.

#### **Surfacing Materials**

• Examples include blown on or troweled on material, typically observed on ceilings, structural steel, concrete ceilings or metal pan decks.

#### Thermal System Insulation

 Examples include piping, hot and cold water lines, Heating Ventilation and Air Conditioning (HVAC) equipment and components, boilers, steam lines or heated thermal processes.

#### Miscellaneous Materials

• Examples include floor tiles, mastics, ceiling tiles, vinyl sheet flooring, sheetrock, sheetrock-tape, sheetrock-mud or joint compounds.

Each sample collected was submitted for analysis in accordance with the EPA authorized Method: 600 49 Code of Federal Regulations (CFR) Part 61 Subpart M, Asbestos NESHAP Rules. "Asbestos Containing Materials" are any materials, which consist of >1% asbestos, as defined by the EPA Approved Analytical Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix C, referred to as: "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

#### **FINDINGS**

The Perry Armory is located at 309 North 14<sup>th</sup> Street in Perry, Oklahoma. The Armory was constructed in approximately 1936. The Armory is a single-story structure with a lower level area that was utilized as an Indoor Firing Range (IFR). The Armory was constructed on a concrete slab with a brick exterior and a flat roof.

The analytical results associated with the samples that were collected during this Inspection discovered asbestos containing floor tile in rooms-19 and 34, asbestos containing floor mastic in rooms-17 and 19, and asbestos containing bedding-mud in rooms-35 and 24. Chrysotile asbestos was the type of asbestos detected in these samples. The asbestos concentrations identified within these samples were >1%, which classifies the tile, mastic and bedding-mud as ACM. However, the floor tile and mastic are non-friable, therefore these materials are considered non-regulated; and because the bedding-mud is friable, this material is classified as regulated.

Table I summarizes the type of material sampled, the sampling location and the analytical result, and Table II lists the homogenous areas that were established and their estimated quantities.

Table I: Analytical Results

Sample Identification	Sample Description	Sample Location	Percent Asbestos	Type of Asbestos	Type of Material
PLM-28	Black Mastic	Rooms17	032/62	- Chrysonile	Miscellaneous
PLM-29	Gray 9"x9" Floor Tile	Room-19	03%	Chrysotile	Miscellaneous

Sample Identification	Sample Description	Sample Location	Percent Asbestos	Type of Asbestos	Type of Material
PLM-30	Black Mastic 7	Room-19	02%	Chaysotile	Miscellaneous
PLM-31	Bedding-Mud	Room-24	02%	Chrysotile	Miscellaneous
PEM-34	Bedding-Mud	Røom-25	===02%; ====================================	Ehrysotile	Miscellaneous
PLM-39	Tan/Beige 9"x9" Floor Tile	Room-34	02%	Chrysotile	Miscellaneous
PLM-44	Bedding Mild	Room=35 A	02%	Ehrysoile -	Miscellaneous

Table II: Homogenous Asbestos Containing Materials

Location	Material	Quantities	Total Quantities
Room-16	Floor Mastic	~310-ft²	
Room-17	Floor Mastic	330eff .	
Room-18	Floor Mastic	~160-ft²	2-1050-ft <sup>2</sup>
Room-19	Floor Mastic	-100·d2	
Room-34	Floor Mastic	~150-ft²	The Bush of
Room-19	Gray 94x92 Floor Tile	-100:ft <sup>2</sup>	~250- <del>ft</del> ²
Room-34	Tan/Beige 9"x9" Floor Tile	~150-ft²	~230-11
Room-9	Bedding Mnd	LIOR PAR	
Room-10	Bedding-Mud	~160 <del>-ft²</del>	
Room-12	Bedding-Mud	220-32	
Room-24	Bedding-Mud	~450-ft2	2,890-ft <sup>7</sup>
Room-23	Bedding Ward	570.pg. 7, 4, 5	
Room-35	Bedding-Mud	~350- ft2	

The Conclusions and Recommendations are provided in the subsequent portion of this Report, and the chain of custody forms, specific sampling locations and associated analytical results are provided in the Appendix of this Report.

#### Historical Overview of Asbestos Activities

Historical records were not provided for review nor was there evidence or information that would suggest that a prior asbestos inspection occurred.

#### RECOMMENDATIONS AND RESPONSE ACTIONS

- 1. All regulated ACM are recommended to be abated.
- 2. The removal and disposal of the regulated asbestos containing bedding-mud is required to be treated as a regulated response action covered by EPA NESHAP regulations.
- 3. A NESHAP notification and Project Design are required for the abatement of the bedding-mud due to the quantities meeting and exceeding 160-square feet, 260-linear feet or 35-cubic feet.
- 4. The NESHAP notification is required to be submitted to the ODEQ 10-business days prior to the commencement any demolition activities.
- 5. If the asbestos containing bedding-mud is not abated and remains undisturbed and in good condition a Management Plan should be developed.
- 6. The removal and disposal of the non-regulated floor tile and floor mastic should be performed by an ODOL Licensed, Asbestos Abatement Contractor to ensure that OSHA and EPA compliant methods are utilized. Because the floor tile and mastic are non-regulated, EPA regulations do not require that a NESHAP notification be submitted prior to abatement, and due to the floor tile and mastic being classified as "Category I Non-Regulated" the ODOL does not require that a Project Design be submitted prior to the abatement of these materials.
- 7. Any activities that would disturb the ACM should only be performed by an ODOL Licensed, Asbestos Abatement Contractor.

#### LIMITATIONS OF SURVEY

This Asbestos Inspection was limited to certain aspects of the building construction; these limitations may have restricted or prevented the complete inspection of hidden or inaccessible building materials; therefore, inaccessible building materials were not inspected. Furthermore, locations presenting a hazard to bystanders or the Inspector were not assessed.

The findings within this Report are valid as of the date this Asbestos Inspection was performed; however, changes in the conditions of a property may certainly occur with the passage of time, whether due to natural processes or the works of man. Additionally, changes in applicable or appropriate standards may also occur, possibly resulting from legislation or the expansion of knowledge.

Our Investigation was performed using the degree of care and skill ordinarily exercised by professional consultants under similar circumstances practicing in this or similar localities. Professional services have been performed; results associated with this Asbestos Inspection were obtained and reported in accordance with generally accepted principles and practices. No other representations either expressed or implied are made; thus, Marshall Environmental Management, Inc. is not responsible for independent conclusions, opinions, or recommendations

made by others. It should also be noted that as-built plans were not available for review or use in the planning of this asbestos inspection.

#### REGULATORY REVIEW

Prior to 1980 asbestos was commonly utilized during construction, in addition to being found in various building materials. In 1994, OSHA required employers to identify ACM in pre-1980 construction as part of its Standard for Occupational Exposure to Asbestos in Construction (29 CFR 1926.1101). This OSHA standard covers maintenance, repair and removal functions involving ACM or Presumed ACM (PACM). Without Asbestos Inspections, owners and/or operators must treat suspected ACM as asbestos. The ODOL defines an ACM as any material that contains 1% or greater of asbestos, whereas the EPA definition is any material that contains >1% asbestos.

The ODOL regulates the Hazard Communication requirements for public employees as part of the ODOL Public Employees Occupational Safety and Health (PEOSH) Program. The State of Oklahoma Hazard Communication Standard (HAZCOM), revised as of August 2006, is provided in the Oklahoma Asbestos Control Act (OAC) 380 Chapter 45. <a href="http://www.ok.gov/odol/documents/Asbestos law rules.pdf">http://www.ok.gov/odol/documents/Asbestos law rules.pdf</a>

Specific provisions of the Standard (OAC: 45-15-1) address asbestos notifications and labeling requirements. The labeling requirements specify that pipe insulation and various equipment insulation containing asbestos as well as rooms where asbestos is present be provided with an Asbestos Warning Label. These labels are to be readily visible and include the following warning:

# DANGER CONTAINS ASBESTOS FIBERS AVOID BREATHING DUST CANCER AND LUNG DISEASE HAZARD

Section 380:45-15-2 requires a notice to employees when ACM are used in acoustical materials on ceilings and walls; this type of ACM is referred to as Surfacing Material.

The EPA requires asbestos inspections in school buildings in grades K through 12, as part of the Asbestos Hazard Emergency Response Act (AHERA), which is authorized in 40 CFR 763.6. These AHERA requirements would only be applicable to the Perry Armory in an instance where the future intentions for the structure would include school activities grades K through 12. The structure would then necessitate an Asbestos Management Plan, required by the Local Educational Authority (LEA). The AHERA inspection protocol requires a thorough sampling of all forms of friable and non-friable asbestos.

The types of ACM to be assessed as part of an AHERA Inspection include:

#### **Surfacing Materials**

• Examples include blown on or troweled on material, typically observed on ceilings, structural steel, concrete ceilings or metal pan decks.

#### Thermal System Insulation

• Examples include piping, hot and cold water lines, Heating Ventilation and Air Conditioning (HVAC) equipment and components, boilers, steam lines or heated thermal processes.

#### Miscellaneous Materials

• Examples include floor tiles, mastics, ceiling tiles, vinyl sheet flooring, sheetrock, sheetrock-tape, sheetrock-mud or joint compounds.

The AHERA sampling protocol addresses the systematic sampling of each type of ACM and the identification of friable ACM, that which can be rendered to a powder by hand pressure, Category I non-friable ACM, such as floor tiles and mastic, and Category II non-friable ACM, such as cement asbestos tiles. The AHERA Inspection must also evaluate the condition and potential for the disturbance of the ACM. The condition of the ACM, good, damaged or significantly damaged, must also be determined.

In addition to AHERA, the EPA also regulates asbestos abatement during renovation and/or demolition activities. Land disposal requirements are also regulated by the EPA through State Landfill Permits. These efforts are now administered by the Oklahoma Department of Environmental Quality (ODEQ) Air Quality and Land Protection regulations. The ODEQ requires the filing of advance notices for any demolition or renovation activities. These notices are referred to as a NESHAP Notification. Both historical and future asbestos abatement response actions track asbestos removal to an ODEQ approved landfill on a project-by-project basis as part of this NESHAP notification process.

A NESHAP Notice is required for renovation and/or demolition whenever the quantities of ACM are greater than 160-square feet, 260-linear feet or 35-cubic feet. All required NESHAP Notifications must be submitted to the DEQ 10-business days prior to any renovation or demolition activities where asbestos is present. Instruction of how to file and comply with DEQ and NESHAP notification requirements are provided on the DEQ web site at: http://www.deq.state.ok.us/aqdnew/asbestos/index.htm

The ODOL regulates Asbestos Abatement. The ODOL Asbestos Division implements the ODOL Rules governing the abatement for friable asbestos. Under the ODOL asbestos rule, OAC 380:50, only Licensed Contractors can perform asbestos abatement, develop management plans and project designs. All abatement supervisors, abatement workers and asbestos inspectors must also be licensed by the ODOL. It should be noted that the ODOL Asbestos Rules are currently undergoing a review for pending rule change. The ODOL Rules are available on the ODOL web site at:

http://www.ok.gov/odol/

## **APPENDIX**

**Chain of Custody** 

**Analytical Results** 

Homogenous-Labeled Floor Plan

Digital Photographs

Licenses

0144-120209-CJM.PEM-1-46

1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159

Marshall Environmental Management, Inc. Chain of Custody

Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

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> Chain of Custody Marshall Environmental Management, Inc.

> > 1601 SW 89th St. Stc. A-100 Oklahoma City, OK 73159

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Chain of Custody

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Marshall Environmental Management, Inc.

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Marshall Environmental Management, Inc. Chain of Custody

Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

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## Mar \_all Environmental Manageme. \_ Inc. Polarized Light Microscopy Asbestos Analysis

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ame/ <u>Typ</u> oject	3	09 N.	14th S	treet	Address	P.O. Box 534	ve Programs Officer 148 ity, OK 73152-3448	Address	P.O. Box 1677 Oklahoma City, C	OK 7310	1
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nail					email	Cindy melton	@dcs.state.ok.us	email	dustin.davidson@dec	<u>.ok,004</u>	
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## Mai all Environmental Managemε, Inc. Polarized Light Microscopy Asbestos Analysis

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me/) oject dres	- 1	309 N.		Street 077-6207	Address	P.O. Box 53	ive Programs Officer 448 City, OK 73152-3448	Addres	3	P.O. Box 1677 Oklahoma City, Ol	<u>C 7310</u>	11
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	οc			Sample Location			Sample Description		· -	No Asbestos		<del></del>
<u>.</u>	Date of Sampling		2	Room 10		Color	Beige					Cellulose
d d	7. F	Date of Sampling Decomple 2, 2009 Decomple 2, 2009			Condition	Good		ļ		99%	Vinyl Aggregate	
Lab Log Namber	0.60	f Sar	ber 2			Туре	Miscellaneous					
3	202	le o	ссел	-		Note		_				<u> </u>
1	44-	۵	Δ									
	"		ĺ								<u>l</u>	<u> </u>
				Sample Location			Sample Description			No Asbestos	Detecte	d
1-	M-PLM-9	] "		Room 10		Color	Black Mastic	i			5%	Cellulose
mber	M-P.	guilq	2009	Black Mastic		Condition	Good				5%	Aggregate Material
ž	วั	Date of Sam	December 2,			Туре	Miscellaneous		T		90%	Tar
Lats Log Nu	2020	te of	cerulo	<del></del>		Note			Π			
<u>a.</u>	0144-120209-CJ	ã	ಪಿ				<u></u>		ĺ			
	5					<del>-  </del>						
		+		Sample Location	· · · · · · · · · · · · · · · · · · ·	<u> </u>	Sample Description			No Asbestos	Detecte	ed .
	9-10			Room 10		Color	Beige/Tan/Brown				1%	6 Cellulose
aper	를 를	100	2009	9"x9" Floor Tile		Condition	Good		1	<u> </u>	999	Vinyl Aggregate
Z	ξ	Sant	December 2, 20		-	Туре	Miscellaneous		╁╴			
Lab Log Number	0144-120209-CJM-PLM-10	Date of Sampting				Note			T			
Ŧ	4-120	ă	Dag			+	<u> </u>		1			
	914				9/10	7		<b>—</b>	$\top$			
	<u> </u>	Щ.	1	l		101	12/2/2		ш	Decemb	er 23	2009
				amie Marshall lyst Name (Print)	Jan;		3.S., Industrial Hygiene Associate Analyst Signature				Analyz	
			Alla	iysi radile (Etnir)			mertar pignerere				1	
est	Metho	od: 40 (	CFR C	hapter I, Part 763, Subpart F, Appe	ndix A, "Int	erim Method	for determination of Asbestos in B	ulk Insula	tion :	Samples" using	Lab	Accreditation:
		icht M	liaroca	opy (PLM), US EPA 600/M4-82-0	20 1982.						4	A PAT ID# 102334

Marshall Environmental Management, Inc, 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159 Phone (405) 615-0401 Fax (405) 681-6733 marshew/fr/swhell net

# Mai all Environmental Manageme Inc. Polarized Light Microscopy Asbestos Analysis

ject I ne/Type ject 3	Реггу <i>1</i> 309 N	Armor	)209-PLM y Asbestos Inspection	Client	State of Okl	ahoma Department	-		Oklahoma Dept. o	Envi	oumental Quality
ject Ine/Type ject Ject Ject Ine/Type ject Ject Ject Ject Inex Inex Inex Inex Inex Inex Inex Inex	Реггу <i>1</i> 309 N	Armor	· · · · · · · · · · · · · · · · · · ·				Client	Client   Land Protection D		ivision_	
ject firess I Contact one #				Attention	of Central S Cindy Melte	n	Attenti	OD.	Dustin Davidson		
iress I Contact  Cone #			Street		P.O. Box 53		Addres		P.O. Box 1677		
one#			077-6207	Address		City, OK 73152-3448	+-		Oklahoma City, O	K 731	)]
l#				Phone#	405-522-48	05	Phone	#	405-702-5115		
nii I				Fax#	405-522-00	51	Fax#				
				Cell #			Cell#				
I-PLM-11				email	Cindy meitor	@dcs.state.ok.us	email		dustin davidson@deq.c	ik.ggy	
I-PLM-11			Sample Location		<del>T</del>	Sample Description			No Asbestos I	Detected	
T I			Room 10	··	Color	Black				5%	Cellulose
	Date of Sumpling	December 2, 2009	Black Mastic		Condition	Good				5%	Aggregate Material
.   §	urg	er 2.			Туре	Miscellaneous	1 -			90%	Tar
6020	je 0	guap			Note						
2 4	å	ğ									
i o											
			Sample Location			Sample Description			No Asbestos	Detecte	i
LAD LOG NAMBER 10144-120209-(JM-PLM-12	<b>9</b> 11	5.	Reom 10		Coler	Tani/Brown Specks		<u> </u>		<1%	Cellulose
-120209-CJM-PE	Dute of Sampling	December 2, 2009	9"x9" Floor Tile		Condition	Good				99%	Vinyl Aggregate
	San	ber 2			Туре	Miscellaneous					
2020	ite o	есеш			Note						
7 4	=	α				· · · · · · · · · · · · · · · · · · ·	<u> </u>			Ĺ	
٥	5				·	<u> </u>	<u> </u>			<u> </u>	
3			Sample Location			Sample Description		_	No Asbestos		r————
L.M.	e	8.	Room 10		Color	Beige/Brown Specks		ļ		<del> </del>	Cellulose
JM-P	l ige	2, 20	Black Mastic		Coadition	Good		ļ		<del> </del>	Aggregate Material
7-60	of Sa	nber			Туре	Miscellaneous		├	<del></del>	90%	Tar
Lab Log Number 120209-CJM-PL?	Date of Sampling	December 2, 2009			Note			$\vdash$		+	<u> </u>
Lab Log Number 0144-120209-CJM-PLM-13				<u></u>				-		-	
	<b>↓</b>					S	+	1	No Asbestos	Detecto	<u>1</u>
4			Sample Location		G./	Sample Description  Beige/Green/Gold	+-	Τ.	110 / Liceston		Cellulose
Lab Log Number 0144-120209-C3M-PLM-14	, S	December 2, 2009	Room 10		Color	Good	+	+-		+	Vinyl Aggregate
Z Z	due		9*x9" Floor Tile		Туре	Miscellaneous	+-	+-			
Lab Log Nu 120209-CJA	50.5				Note	177,50011415040		+			
4-12C	Dat				1442	<u> </u>	+	ļ —		1	<u> </u>
014	014				-		十一	+-			
	+		Sample Location		<del></del>	Sample Description	1	I.,	No Asbestos	Detect	sd
V 15			Room 10		Color	Black	_	T		54	Cellulose
nibe 4-PLA	pling	2009	Black Mastic		Cozdition	Good	$\top$			55	Aggregate Material
CIA CIA	Sam	er 2,			Туре	Miscellaneous				909	Tar
Lab Log Number -120209-CIM-PLA	Date of Sampling	December 2, 2009			Note						
Lab Log Number 0144-120209-CIM-PLM-15	å	Ĭ		. Sanaka	1			igspace	····		
=						0 /1/		_	<del></del> -		
		J	amie Marshall	län	ie Marshall F	3.S., Industrial Hygiene Associate	4		Decemb	er 23,	2010
		Ana	lyst Name (Рппt)			Analyst Signature			Date	Analyz	ed
est Method	od: 40 (	CFR C	hapter I, Part 763, Subpart F, Appe opy (PLM), US EPA 600/M4-82-0	endix A, "Int	erim Method i	for determination of Asbestos in Bu	k Insula	tion i	Samples" using	Lab	Accreditation;

Marshall Environnectal Management, Iac, 1601 Southwest 99th Street, Suite A-100 Oklahome City, Oklahoma 73159 Phone (405) 616-0401 Fax (405) 681-6753

# Mai all Environmental Manageme Inc. Polarized Light Microscopy Asbestos Analysis

			Pro	ect Location	ĺ		Invoice To			Repor		
		1145 4		209-PLM	Client	State of Okl	ahoma Department	Client		Oklahoma Dept. of Land Protection Di	Environ vision	onmental Quality
oject oject				Asbestos Inspection	Attention	of Central S Cindy Melto	n	Attent	tion	Dustin Davidson		
me/T	ype	309 N.	-	•	<del> </del>	P.O. Box 53	ive Programs Officer 448	Addre		P.O. Box 1677		
oject ldres:	- 1-	Perry, (	OK 73	777-6207	Address	Oklahoma C	City, OK 73152-3448			Oklahoma City, O	<u>C 7310</u>	1
te Co	ntact				Phone #	405-522-48	05	Phone	#	405-702-5115		
hone !	H				Fax#	405-522-00	51	Fax #				
ell#					Ceil#			Сеп #	ŀ			
nail					email	Cindy meltor	@dcs.state.ok.us	email		dustin davidson@deg.c	k.gav	
1				Sample Location		1	Sample Description			No Asbestos I	etected	
	4-15		ŀ	Room 10		Color	Beige		Ţ		1%	Cellulose
The l	4.	ling	5002	9"x9" Floor Tile		Condition	Good				99%	Vinyl Aggregate
Z	Ş	Sam	er 2,			Туре	Miscellaneous					
Lab Log Number	020	Date of Sampling	December 2, 2009			Note						
٤	0144-120209-CJM-PI.M-16	DA	ā	<u> </u>			<u> </u>					<u></u>
	ő					1						····
_				Sample Location			Sample Description		-	No Asbestos	_	
_	M-17			Room 10		Color	Black		igspace		ļ. — ļ	Cellulose
mpe	-P.	if.	200	Black Mastic		Condition	Good		1_		-	Aggregate Material
Lab Log Number	) J	Sam	ber 2			Туре	Miscellaneous		_	·	90%	Таг
	2020	Date of Sampling	December 2, 2009			Note			-			
	44	a	^	·							<del> </del>	
	0									No Asbestos	Detecte	<u> </u>
	œ			Sample Location		ļ. —	Sample Description		· T	IAO VISCANO		Cellulose
Ja:	בַּ	December 2, 202094. July 1, 1202094. Jul			Color	Beige	<del></del>	+	<del></del>	+	Vinyl Aggregate	
de m	M-M				Condition	Good		+			3 33 5	
Lab Log Namber	96	of S <sub>8</sub>	mber			Туре	Miscellaneous		+		<del> </del>	
Late	1202	Date	Dece			Note	<u></u>		+		<del> </del>	<del>                                  </del>
	0144-120209-CJM-PLM-18					<del>.  </del>			+		+-	
	-	-		Sanda I cartlan			Sample Description			No Asbestos	Detecte	ed
	5			Sample Location Room 10		Color	Black		T		59	Cellulose
per.	PLM-19	ii gri	December 2, 2009	Black Mastic	···	Condition			+		59	Aggregate Material
Z.	) S	Date of Sampli		Diata Masic		Туре	Miscellaneous		1		909	6 Tar
Lab Log Num	209					Note						
ت	4-12(								T			
	9 4						······································					
	1	+	+	Sample Location		1	Sample Description			No Asbesto		
	M-20			Room 10		Color	Green/Gold					K Cellulose
Lab Log Number	0144-120209-CJM-PLM-20	Onte of Sanspling	December 2, 2009	9"x9" Floor Tile		Condition	Good		$\perp$		999	Vinyl Aggregate
N. Br	P.C.I	Sam	ber 2,			Туре	Miscellaneous		_ _		+	-
ab La	2020	ale e	ecem			Note			-		-	<del></del>
	144-1	a				_	<del></del>	<del></del>			+	
	°		<u> </u>				CA 6		<u> 2</u>		<u> </u>	<u> </u>
$\overline{\Box}$					7	M	16616	277		Decem	per 23,	2009
L_				amie Marshall	J <sub>d</sub>		B.S., Industrial Hygiene Assoc	iate			Analy	
ľ			An	lyst Name (Print)			Analyst Signature					

Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation: AIHA PAT ID# 102334

## Mai all Environmental Manageme, Inc. Polarized Light Microscopy Asbestos Analysis

ame/Type         309 N. 14th Street         Add           ddress         Perry, OK, 73077-6207         Add			Invoice To				·
ame/Type oject 3009 N. 14th Street ddress Perry, OK 73077-6207 Phone # Fax Cell # Perry, OK 73077-6207 Phone # Fax Cell # Perry OK 73077-6207 Phone # Fax Cell # Perry OK 73077-6207 Phone # Perry OK 73077-6207 Phone # Fax Cell # Phone # P	ient	of Central Se	shoma Department ervices	Client	Oklahoma Dept. Land Protection	Division	onmental Quality
Tab Log Number   Lab Lo	ttention	Cindy Melto Administrati	n ve Programs Officer	Attention			
Pap 10g Number   Pap	1	PO Box 53	448 ity, OK 73152-3448	Address	P.O. Box 1677 Oklahoma City,	OK 7310	1
Fax   Cell   Fax		405-522-480		Phone #	405-702-5115		
Cell Figure 1 Cab Log Number Lab Log Number Lab Log Number Lab Log Number Cab Lab Log Number Cab Lab Log Number Cab Lab Log Campling Campl	ax#	405-522-005	51	Fax#			
Cab Log Number   Lab	eli#			Cell#		<u> </u>	
Cab Log Number   Lab		Cindy melton	@dcs.state.ok.us	email	dustin.davidson@dec	g.ok.gov	
Lab Log Number			5 1 D 1-4-		No Asbesto	s Detected	
Cab Log Number   Lab		Color	Sample Description Black			1 1	Cellulose
Cab Log Number   Lab			Good		,	5%	Aggregate Material
Cab Log Number   Lab			Miscellaneous	<del> }</del>		90%	<del></del>
Cab Log Number   Lab	-		Arisestraticons			1	
Cab Log Number   Cab		Note				+ +	
Lab Log Number   Lab							
Lab Log Number   Lab			Sample Description		No Asbesto	s Detected	
Sample Location  Pute of Sampling  Date of Sampling  Sample Location  Sample Location  Sample Location  Sample Location  Sample Location		Color	White			60%	Fibrous Glass
Sample Location  Room 11  12 To From PLM-23  144-120209-CIM-PLM-23  Date of Sampling  Date of Sampling  Date of Sampling  Sample Location  Percentage 2, 2009  Sample Location  Yellow Mastic  Sample Location		Condition	Good			40%	Calcareous Material
Sample Location  Room 11  12 To From PLM-23  144-120209-CIM-PLM-23  Date of Sampling  Date of Sampling  Date of Sampling  Sample Location  Percentage 2, 2009  Sample Location  Yellow Mastic  Sample Location		Туре	Miscellaneous	-   -			
Sample Location  Room 11  12 To From PLM-23  144-120209-CIM-PLM-23  Date of Sampling  Date of Sampling  Date of Sampling  Sample Location  Percentage 2, 2009  Sample Location  Yellow Mastic  Sample Location		Note					
Sample Location  Pute of Sampling  Date of Sampling  Sample Location  Sample Location  Sample Location  Sample Location  Sample Location							
Cab Log Number   Lab	-						
Sample Location  Room 11  Yellow Mastic  Yellow Mastic  Sample Location  Sample Location  Sample Location	··· ,		Sample Description		No Asbest		· · · · · · · · · · · · · · · · · · ·
Sample Location  Number  Part of Sample Location  Room 11  Yellow Mastic  Part of Sampling  Sample Location  Sample Location		Color	Tan			100%	Vinyl Aggregate
Sample Location  Room 11  Yellow Mastic  Yellow Mastic  Sample Location  Sample Location  Sample Location		Condition	Good				
Sample Location  Number  Part of Sample Location  Room 11  Yellow Mastic  Part of Sampling  Sample Location  Sample Location		Туре	Miscellaneous				
Sample Location  Number  Part of Sample Location  Room 11  Yellow Mastic  Part of Sampling  Sample Location  Sample Location		Note					
Sample Location  Room 11  Yellow Mastic  Yellow Mastic  Sample Location  Sample Location  Sample Location						_	
Room 11  Pate of Sampling  Determine 2, 2009  Sample Decarior 2, 2009  Sample Decarior 2, 2009						_ <u>_</u>	
Lab Log Num O144-120209-CJM Date of Samp Dames Sample Tocation		<u></u>	Sample Description		No Asbest	tos Detecte	<del></del>
Lab Log Num O144-120209-CJM Date of Samp Dames Sample Tocation		Color	Yellow			100%	Adhesive
Sample Location		Condition	Good			_	
Sample Location		Туре	Miscellaneous				
Sample Location		Note	<u> </u>			·	
Sample Location		<u>  </u>					
Sample Location  Room 12  Date of Sampling  December 7, 20009-CIM-PLM-25  December 7, 20009  Sample Location		<del> </del>			No Asbes	stos Detect	ed
Lat Log Number  1. Lat Log Number  Date of Sampling  December 1, 2009  December 1, 2009		G-1	Sample Description				Vinyl Aggregate
1.ab Log Num 1.ab Log Num 0144-120209-CJM-1 December 2, 2		Color	Beige/Tan Good	_		<del>   </del>	
Lab Log		Туре	Miscellaneous			$\neg \uparrow \neg$	ļ
1.ab		Note					
410		1	100				
			一くカーナ	27D			
	<del>-/</del>	<u>*</u>	111/6		Desa	mber 23,	2009
Jamie Marshall	Jami		B.S., Industrial Hygiene Associa	ite	· · · · · · · · · · · · · · · · · · ·		
Analyst Name (Print)			Analyst Signature		Da	te Analy	ccu

# Mai all Environmental Manageme Inc. Polarized Light Microscopy Asbestos Analysis

			Pro	iect Location		-	Invoice To	1		eport To		
					Client	State of Okla	homa Department	Client	Oklahoma Der Land Protectio	t, of Environ Division	nmental Quality	
nject	F			209-PLM Asbestos Inspection	Attention	of Central Se Cindy Melto Administrati	n ve Programs Officer	Attention	Dustin Davids	on		
ame/T roject	3	309 N.			Address	P.O. Box 53	448 ity, OK 73152-3448	Address	P.O. Box 1677 Oklahoma City	, OK 7310	1	
ddres:	$ \top$	егту, (	JK. 73	077-6207	Phone #	405-522-480		Phone #	405-702-5115			
te Co					Fax #	405-522-005		Fax#				
hone #	-				<del> </del>	403-322-00	, , , , , , , , , , , , , , , , , , ,	Cell#	+			
ell#					Cell#	<del></del>			duette douidens	dea of any		
nail					emali	Cindy melton	@dcs.state.ok.us	email	dustin davidson@	080,00,000		
				Sample Location		T	Sample Description		No Asbes	tos Detected		
	25-10	ļ	ŀ	Room 12	<b>"</b>	Color	Yellow			100% A	Adhesive	
n per	FPL	pling	2009	Yellow Mastic		Condition	Good					
Z	Š	Sam	er 2,		- <del> </del>	Туре	Miscellaneous					
Lab Log Number	20205	Date of Sampling	December 2, 2009			Note						
ן ב	0144-120209-CJM-PLM-26	ď	ă		, <del>.</del>							
	ő		ļ									
	_			Sample Location			Sample Description		No Asbe	stos Detected	Cellulose	
ڀ	0144-120209-ÇJM-PLM-27	- Pa	ا ۾	Room 17		Color	Beige				Cellulose Vinyl Aggregate	
Lab Log Number	17-F	Date of Sampling	December 2, 2009	12"x12" Floor Tile Under (	arpet	Condition	Good		<u> </u>	99%	1 mli veRieRare	
S S	<u>ن-</u> و	f Sau	pper.			Туре	Miscellaneous			-		
Jds.	1202(	ate	Эесеп			Note	<u> </u>	<del></del>				
_	4	"	<u>.</u>			<u> </u>					1	
							Sample Description		3% Asbe	stos Dete	ected	
	4-28			Sample Location		Color	Black	3% C	hrysotile	- , -	Celluiose	
ber	I W	ing	2009	Room 17 Black Mastic Under Ca		Condition	Good			96%	Tar	
Lab Log Number	JW.	Date of Sampling	12,2	black Mastic Under Ca	her	Type	Miscellaneous			-		
Log	209-(	Soc	December 2, 2009			Note	1111001101					
J.F.	0144-120209-CJM-PL.M-28	Dat	Dec			-						
	a ta					<del></del>						
	<del></del>	1	-	Sample Location			Sample Description		3% Asbe		tos Detected	
1-	0144-120209-CIM-PI.M-29	an.		Room 19		Color	Grey	3% C	hrysotile	97%	Vinyl Aggregate	
mber	M-P.	plin	200	9"x9" Floor Tile		Condition	Good					
Ž &	\$CI	San	ber 2			Туре	Miscellaneous		<u></u>			
Lab Log Numl	12020	Date of Sampling	December 2, 2009			Note	<u> </u>					
3	144-	144-17	1 0									
		ļ	<u> </u>				Sample Description	<del></del>	2% Asb	estos Det	ected	
	30		ĺ	Sample Location			<del></del>	2% (	hrysotile		Cellulose	
pē.	0144-120209-CJM-PLM-30	8	600	Room 19 Black Mastic		Condition	Black			97%	Ter	
N. Et Et	CJM.	dun	(2,2)	DISCK MISSIG		Туре	Miscellaneous					
Lab Log Number	1209-(	Date of Sampling	December 2, 2009			Note			<u> </u>			
L. di	4-120	Dat	Dec			1	<u> </u>					
1	014					1	$\sim$ $\sim$	1				
_		<del></del>	<u> </u>	Jamie Marshall	1		TUTE	7(	Dec	cember 23,	2009	
<u> </u>				alyst Name (Print)	/ <u>/</u>		B.S., Industrial Hygiene Assoc Analyst Signature	LAUC .		Date Analyz	ed	
				Chapter I, Part 763, Subpart F, App				:- Dulle Involution	n Samples" using	Lab	Accreditation:	

# Mai all Environmental Manageme Inc. Polarized Light Microscopy Asbestos Analysis

			Pro	eet Location			Invoice To	ļ		eport Ta	
					Client	State of Okla	homa Department	Client	Oklahoma Dep Land Protection	nt, of Enviro n Division	nmental Quality
ject   ject	1			09-PLM Asbestos Inspection	<del> </del>	of Central Se Cindy Meltor	3	Attention	Dustin Davids	on	
ne/T	VDB	_			Attention	Administrati P.O. Box 534	ve Programs Officer	Address	P.O. Box 1677	OV 5010	
iject <u>dress</u>	12	09 N. Perry, (	14tn 3 OK 73	77-6207	Address	Oklahoma C	Oklahoma City, OK 73152-3448		Oklahoma Cit		
	atact				Phone#	405-522-480	25	Phone#	405-702-5115		·
one h	,				Fax#	405-522-005	i	Fax#			
					Cell #						
# 11		•			email	Cindy melton	Cindy melton@dcs.state.ok.us		dustin_davidson@	deg.ok.gov	
tail					enian	Cittor Mexor.			2% Asbes	ton Data	ntad
$\neg$				Sample Location			Sample Description	20/10			Calcareous Material
_	N-3	-a0	<u>.</u>	Room 24		Color	Beige	2% Ch	rysoule	7078	, man com
ğ I	M-PI	nildir	December 2, 2009	Bed Mud		Condition	Good	<del>-   -   -</del>			
Lab Log Number	5	Sar	per 2			Туре	Surfacing				,
ag g	2020	Date of Sampling	eoen			Note					
ا د	0144-120209-CJM-PLM-31		٦ <u>[</u>								
	٥						4 15 14		No Ashe	estos Detected	<del></del>
	2			Sample Location			Sample Description	<del></del>			Cellulose
5	0144-120209-CJM-PLM-32	per .	8	Room 24		Color	Beige			<del></del>	
qua	-I-N	ig.	December 2, 2009	Drywall		Condition	Good			<del>-   -</del>	
N So.	09-C	Date of Sampling	nber			Туре	Miscellaneous				
Lab Log Number	1202	Date	Decer			Note	<u> </u>				
_	744	_						<del></del>			
						_	Sample Description		No Ash	estas Detecter	d
	33		December 2, 2009	Sample Location Room 24	<del> </del>	Color	Beige	<del>                                    </del>		1%	Cellulose
per	0144-{20209-CJM-PLM-33	, <u>e</u>				Condition	Good			98%	Calcareous Material
Lab Log Number	Σ̈́	Date of Sampling		Bed Tape	<u> </u>	Туре	Miscellaneous				
1.08	209-6	SJoa	ernbe		<del></del>	Note					
Lab	4-120	Dat	Des								<u> </u>
	9 9										<u> </u>
	<del> </del>	├		Sample Location			Sample Description		2% Asb	<del></del> -	<del>,</del>
	1.34	<b> </b>		Room 25		Color	Beige	2% C	hrysotile	98%	Calcareous Material
alber	1-PL	pling	2009	Bed Mud		Condition	Good				
S. S.	Į	Sam	er 2,			Туре	Miscellaneous				
Lab Log Namber	0144-120209-CJM-PLM-34	Date of Sampli	December 2, 20			Note					<del>                                     </del>
l,	44-12	ءَ ا	ă								<u> </u>
	10										<u> </u>
	2	1		Sample Location			Sample Description			19	% Callulose
5	Z.	25	8	Room 25		Color	Beige				% Calcareous Material
dmi	Ā. Ā	l ig	2, 20	Drywall		Condition	Good	<del>   -  </del>		-	
20	09-0	af Sa	nber			Type	Miscellaneous				<del> </del>
Lab Log Number	1203	Date of Sampling	December 2, 2009			Note			<del></del>		
_	0144-120209-CJM-PLM-35	-	-			<del>}                                    </del>					-
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				amie Marshall		111	B.S., Industrial Hygiene Associ	iate	De	ecember 23,	2009
				lyst Name (Print)	1 /		Analyst Signature			Date Analy	zed
_										T -1	Accreditation:
				hapter I, Part 763, Subpart F, Ap				L. D. H. Ingulatio	w Samples" usit	ıo ilad	noutellanon.

Marshall Environmental Management, Inc. 1601 Southwest 85th Street, Suite A-100 Oklahoma City, Oklahoma 73159 Phone (405) 616-0401 Fitx (405) 681-6753

# Mal all Environmental Manageme, Inc. Polarized Light Microscopy Asbestos Analysis

			Pro	ect Location			lavoice To			eport To	
oject Id. 0145-AB-120209-PLM Clie			Client		shoma Department	Client	Okiahoma Dept. of Environmental Quality Land Protection Division				
oject i oject		-		Asbestos Inspection		of Central Se Cindy Melto	Π	Attention	Dustin Davids		
me/T	vne				Attention	Administrati	ve Programs Officer	Address	P.O. Box 1677		
oject dress	۱.	109 N. Репту, С	14tn 3 OK 73	reet 77-6207	Address	Oklahoma C	P.O. Box 53448 Oklahoma City, OK 73152-3448		Oklahoma City		01
Phone # 4		405-522-480	)5	Phone #	405-702-5115		<del></del>				
ione# Fax#		405-522-00	51	Fax#	1						
4 H					Cell #	1					
				·	email	Circly malton	@dcs.state.ok.us	email	dustin.davidson@	deq.ok.gov	
sail					ентап	Ciridy Melion	(@ges,siate.ox.as		<u> </u>		
				Sample Location			Sample Description		No Asbes	tos Detected	
,	ž	90	ē [	Room 25		Color	Beige			100%	Cellulose
ğ	Σ	il di	, 200	Bed Tape		Condition	Good			-   -	· · · · · · · · · · · · · · · · · · ·
ž N	5	Sar	ber 2	-		Туре	Miscellaneous		·		
Lab Log Number	2020	Date of Sampling	December 2, 2009			Note					
-	0144-120209-CJM-PLM-36	<u> </u>	<u> </u>								<u> </u>
	<u> </u>								Nr. A-1-	stos Detectes	4
T				Sample Location			Sample Description		No Asbe	_	Vinyl Aggregate
þ	Ľ.	뼕	December 2, 2009	Room 29		Color	Tan/Brown	_	<del>-</del>	100%	- mil vebregae
quin	4-W	Date of Sampling		12"x12" Floor Tile		Condition	Good	<del>-  -  -</del>		<del></del>	<del>-</del>
86 P	0144-120309-CJM-PLM-37	of Sa	nber			Туре	Miscellaneous				
Lab Log Number		Jute	Jecer			Note		<del></del>		<del></del> -	
-		-									<del>                                     </del>
_							Sample Description		No Ash	stos Detecte	d.
	-38		December 2, 2009	Sample Location		Color	Black	<del></del>			Celiulose
je j	0144-120209-CJM-PLM-38	g II		Room 29	<del> </del>	Condition	Good			98%	Tar
Lab Log Number	- N	Date of Sanspling		Błack Mastic		Туре	Miscellaneous	<del>-   -</del>			
Log	58	s of S	embe			N-4-		-			<del>, , , , , , , , , , , , , , , , , , , </del>
٤	4-120	Date	Dec		•	, Note					_
	7										
		<del> </del>		Sample Location		-	Sample Description		2% Asbe	stos Det	tected
	PLM-39			Room 34		Color	Tan/Beige	2% C	hrysotile	989	Vinyl Aggregate
mber.	114	Build	2009	9"x9" Floor Tile		Condition	Good				1
N E	Ş	San	2, 2			Туре	Miscellaneous				
Lab Log Number	0144-120209-CJM-	Date of Sampling	December 2, 20			Note					
2	4 5	ä	ă								
	0								<u>.</u>		
				Sample Location			Sample Description		No Ast	estos Detect	-T
i.	0144-120209-CJM-PLM-40	00	ē	Room 34		Color	Yellow			1009	% Adhesive
Lab Log Number	M-Pt	Date of Sampling	2, 2009	Yeliow Mastic		Condition	Good		<u> </u>		
N So	Q	ıf Sar	ıber 2		- 40	Туре	Miscellaneous				<del> </del>
ab L	12020	Jate 0	December 2,			Note	<u> </u>		<del></del>		
_	144	-			<del>/^</del>	<del></del>		$\leftarrow + -$	·		
	٠	<u></u>	<u>L</u> .				<del></del>	),,!			<del></del> _
			3	mie Marshall	<i>j</i>	111			Dec	ember 23,	2009
				yst Name (Print)	Jai		3.S., Industrial Hygiene Associ Analyst Signature	late		Date Analy	zed
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## Mai all Environmental Manageme, Inc. Polarized Light Microscopy Asbestos Analysis

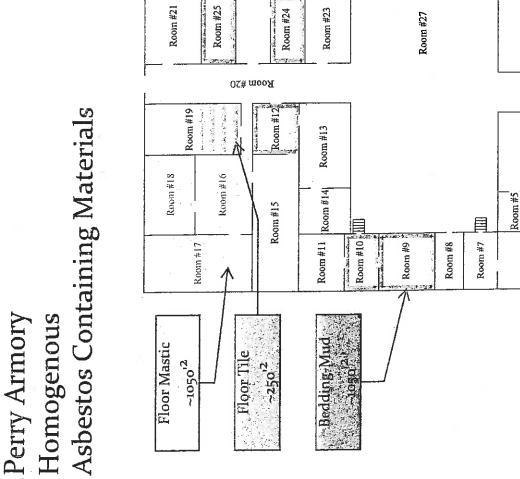
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oject	ta.	0145-A	 \B-12	)209-PLM	Client	State of Okla of Central S	ahoma Department	Client		Land Protection D	i Envii ivision	onmental Quality
roject		Репту /	Armor	Asbestos Inspection	Attention	Cindy Melto	n	Attenti	010	Dustin Davidson		
ame/ roject	vpe	309 N	14th	Street	Address	P.O. Box 53	ve Programs Officer 448	Addres		P.O. Box 1677 Oklahoma City, O	V 7211	n1
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hone	•				Fax#	405-522-003	51	Fax#				
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ntail					етай	Cindy malton	@dcs.state.ok.us	email		dustjin.davidson@deq.c	k dov	
_				Sample Location			Sample Description		_	No Asbestos I	Detected	1
	4			Room 33		Color	Beige				100%	Vinyl
uber	-PI,	pling	December 2, 2009	12"x12" Floor Tile		Condition	Good	$\neg \neg$				
Lab Log Number	Ç	Date of Sampling			•	Туре	Miscellaneous	$\top$				
b Ley	60203	te of	cemb			Note						
1.4	0144-120209-CJM-PI,M-4}	นั	De	· · · · · · · · · · · · · · · · · · ·		1					<u> </u>	
	10			·····	· <u>-</u>						<u> </u>	
	Ç:			Sample Location			Sample Description			No Asbestos		· ·
_	0144-120209-CJM-PLM-12		December 2, 2009	Room 33		Color	Black				100%	Adhesive
Lab Log Nuasher	7-P.	ii.		Black Mastic		Condition	Good				<u> </u>	
2.	วี	Date of Sampling				Туре	Miscellaneous				<u> </u>	ļ
th Le	2020		ecem			Note					_	
ן ב	44	=	٨				<u>.</u>		<u> </u>		<u> </u>	
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	52			Sample Location			Sample Description		<del>,</del>	No Asbestos	1	T
ı,	Z,	Date of Sumpling	December 2, 2009	Room 27		Color	Yellow		<u> </u>		100%	Fibrous Glass
dun	Α̈́			4'x4' Ceiling Tile		Condition	Good		<u> </u>			<u> </u>
Z Ho	760		Per 7			Туре	Miscellaneous		-		-	<u> </u>
Lab Log Number	1202	) ate	Secen			Note			1		+	
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	4			Sample Location			Sample Description	79/	Ch	rysotile		Cellulose
ber	F.M.	<u>#</u>	2009	Room 35	- · · · · · · · · · · · · · · · · · · ·	Color	Beige			1,000,00	969	6 Calcareous Material
E S	Σ	I II		Bed Mud		Condition	Good		+		+-	
Lab Log Number	203-0	Date of Sampling	December 2,			Type Note	Surfacing		+		$\dagger$	
du.	0144-120209-CJM-PLM-44	Date	Dece			1710te		_	+-			
	<del>2</del>					<del> </del>			$\dagger$	<del>_</del>		
	-	-		Sample Location		<del> </del>	Sample Description			No Asbesto	s Detect	ed
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1		Room 35		Color	Beige	_			300	% Celluiose
mber	4-PL	pling	2009	B=d Tape	<del> </del>	Condition	Good					
ž	á	Sam	3er 2,			Туре	Miscellaneous					
Lab Log Number	20205	Date of Sampling	December 2, 2009		-	Note					<del> </del>	
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[est	Metho	od: 40	CFR (	hapter I, Part 763, Subpart F, Appe	ndix A, "Int	erim Method i	for determination of Asbestos in Br	ulk Insula	tion :	Samples" using	Lab	Accreditation:
Pola	ized l	Light N	1icros	ору (PLM), US EPA 600/M4-82-0	20 1982,						AII	IA PAT ID# 102334

# Ma hall Environmental Manageme, Inc. Polarized Light Microscopy Asbestos Analysis

			Pro	oject Location			Invoice To		Report	t To	
		0145 4			Client	State of Okl	ahoma Department	Client	Oklahoma Dept. of Land Protection Div	Enviro	nmental Quality
ject ject				)209-PLM y Asbestos Inspection	<del></del>	of Central S Cindy Melto	n	Attention	Dustin Davidson	V131011	
1е/	Гуре		_		Attention	Administrat P.O. Box 53	ive Programs Officer		P.O. Box 1677		
ect res		309 N. Peπy,		Street 077-6207	Address	Oklahoma C	City, OK 73152-3448	Address	Oklahoma City, OK	73101	
Co	ntact				Phone#	405-522-48	05	Phone #	Phone # 405-702-5115		
ne:	#				Fai#	405-522-00	51	Fax#			
#					Cell#			Cell #			
11					emaîl	Cindy meltor	@dcs.state.ck.us	email	dustin davidson@deq.ol	L.GOV	<del></del>
	30			Sample Location		,	Sample Description		No Asbestos D	etected	
	0144-120209-CJM-PJ.M-46	<u>.</u>		Room 35		Color	Beige			1% C	ellulose
}	4-P	Date of Sampling	2, 2009	Drywall		Condition	Good			99% C	alcareous Material
.	9-C3	San	Per 2			Туре	Miscellaneous				
	2020	ايوا	<b>December</b>			Note					<u>.</u>
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				amie Marshall	Jan		3.S., Industrial Hygiene Associa	te			
			Ana	llyst Name (Print)		i	Analyst Signature		Date /	Analyze	iu .

AIHA PAT ID# 102334

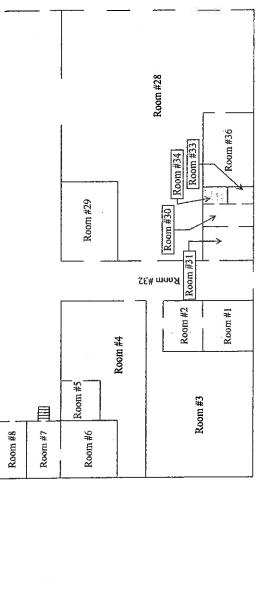
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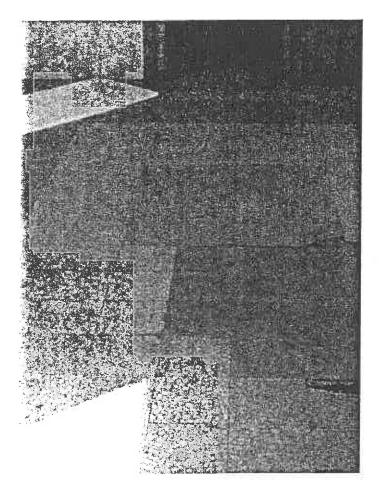


Room #26

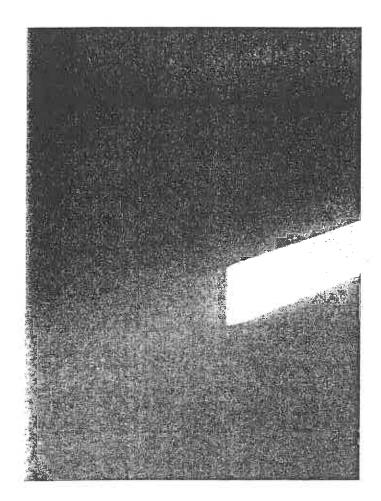
Room #35

Room #22

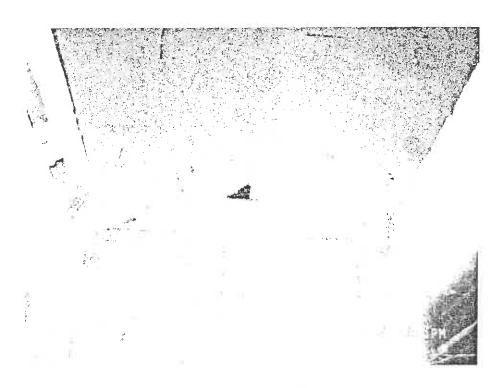




Room 10 Negitive Floor Tile



Room 15 Negitive Floor Tile



Room 16 nd Room 19 Positve Mastic









## Lead-Based Paint Inspection And Settled Dust Sampling

**Perry Armory** 

309 North 14<sup>th</sup> Street Perry, Oklahoma 73077-6207

December 2, 2009

DCS Contract NO.: ID009139-4

#### **PROVIDED FOR**

Oklahoma Department of Environmental Quality Land Protection Division 707 North Robinson Oklahoma City, OK 73102

#### PROVIDED BY

Marshall Environmental Management, Inc. 1601 Southwest 89<sup>th</sup> Street, Suite A-100 Oklahoma City, OK 73159

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#### **CERTIFICATION**

This is to certify, that Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection and Settled Dust Sampling within the Perry Armory, for the State of Oklahoma Department of Environmental Quality, Land Protection Division. The Perry Armory Lead-Based Paint Inspection and Settled Dust Sampling was performed by an Oklahoma Department of Environmental Quality Certified, Lead-Based Paint Inspector/Risk Assessor, Jamie Marshall of Marshall Environmental Management, Inc., under the direction of Dr. Charles L. Marshall, Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The analytical results associated with this Lead-Based Paint Inspection and Settled Dust Sampling are believed to accurately, reflect the locations and concentrations of paint and dust containing lead.

#### **Current Owner Information**

State of Oklahoma

Certified Lead Based Paint Risk Assessor/Inspector	
- Milan	2-12-10
Jamie Marshall, B.S., Industrial Hygiene Associate	Date

Oklahoma Department of Environmental Quality Certification Number: OKRASR13418

#### Certified Lead-Based Paint Firm

Marshall Environmental Management, Inc. 1601 SW 89<sup>th</sup> Street, Suite A-100 Oklahoma City, OK 73159 (405) 616-0401

Oklahoma Department of Environmental Quality Certification Number: OKFIRM11160

#### **XRF** Information

Niton XLp Spectrum Analyzer Model #XLp 300A Serial #12585 Source: 40 mCi

Information Reviewed & Approved By:

Dr. Charles L. Marshall, C.I.H., C.S.P.

Date

#### **EXECUTIVE SUMMARY**

Marshall Environmental Management, Inc. performed a Lead-Based Paint Inspection (LBP), in addition to collecting samples of settled dust on December 2, 2009 within the Perry Armory, located at 309 North 14<sup>th</sup> Street in Perry, Oklahoma. This sampling event was accomplished in order to evaluate the locations and condition of lead-based paint, in addition to identifying the concentrations of lead in lead-laden dust, which may be present, so that a strategy may be prepared for remediation and/or abatement purposes.

The analytical results associated with the samples that were collected as part of this Lead-Based Paint Inspection did identify lead-based paint on various doors, doorjambs, stair rails and wall surfaces throughout the Armory. Additionally, the concentrations of lead detected in the majority of the dust wipe samples that were collected from the common areas throughout the Armory, outside of the Indoor Firing Range (IFR), exceeded the United States Department of Housing and Urban Development (HUD) guidelines and the Environmental Protection Agency (EPA) proposed regulations of 40-micrograms per square foot (µg/ft.²). Furthermore, the lead concentrations correlating with the 2-samples collected within the IFR exceeded an action level of 200-µg/ft.² set forth by the Departments of the Army National Guard (ARNG) and the Air Force National Guard (ANG) Bureau.

Specific sampling locations and the analytical data related to this Inspection and Surface-Dust Sampling Event are listed in the Findings portion of this Report. The remainder of this Report includes the Sampling Methodology, the Findings, the Disclosure Statement and Owners Legal Obligation as well as information regarding lead-based paint.

#### SAMPLING METHODOLOGY

All painted surfaces within the Armory are representatively sampled and analyzed for lead content, excluding non-fixed and factory painted items. Various floor surfaces throughout the Armory are also sampled and analyzed for lead-laden dust. The sample collection and analysis are performed in accordance with HUD guidelines, "HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing"; and EPA proposed regulations, 40 Code of Federal Regulations (CFR) part 745.

#### Lead-Based Paint

Painted surfaces within the Armory are sampled and analyzed for lead content by utilizing an X-Ray Fluorescence (XRF), direct reading, data logging instrument. Lead concentrations identified as greater than or equal to 1-milligram per square centimeter (mg/cm²) are characterized as "Lead-Based Paint." per HUD guidelines and EPA proposed regulations. The street facing side of the Armory is identified as Side A and going in a clockwise direction, the remaining sides are categorized as Side B, Side C and Side D respectively. Each door and window within the Armory is given a sequential number that corresponds with a floor plan included in the Appendix of this Report.

#### Lead-Laden Dust

Floor surfaces throughout the Armory are sampled and analyzed for lead-laden dust. According to HUD guidelines and EPA proposed regulations, analytical results with lead concentrations equal to or greater than 40-µg/ft.<sup>2</sup> represent lead contamination; this action level applies to all surfaces within the Armory excluding the IFR. In accordance with the Departments of the ARNG and the ANG Bureau guidelines, "Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges", lead concentrations equal to or greater than 200-µg/ft.<sup>2</sup> represent lead contamination within an IFR. Samples of settled dust are collected by placing a template of a known dimension firmly against a selected surface; next, the area within the template is wiped in a particular pattern utilizing a specified wipe; each sample is then given an identification number; lastly, the wipe is placed in an approved container for transportation purposes.

#### **FINDINGS**

The analytical results associated with this Lead-Based Paint Inspection and Settled Dust Sampling did discover lead-based paint and lead-laden dust on various surfaces throughout the Perry Armory. The following tables list and categorize sampling locations and correlating analytical results.

Table I: Painted Doors & Doorjambs

Door Number	Door Result	Doorjamb Result	<b>Dimensions</b> (Width x Height)
1:	Positive	Positive	64" x 82"
2	No Door	Positive	40" x 82"
3	Positive	Positive	34" x 82"
4	Negative	Positive	31" x 84"
5	Positive	Positive	41" x 86"
6	Positive	Positive	40" x 84"
7	<b>Positive</b>	Positive	41" x 84"
8	Negative	Negative	N/A
9	Positive	Positive	52" x 88"
10	Positive	Positive	41" x 84"
11	Positive	Positive	52" x 82"
12	Positive	Positive	111" x 118"
13	Positive	Positive	41" x 84"
14	Positive	Positive	41" x 82"
15	No Door	Positive	41"x 82"
16	Positive	Positive	41"x 82"
17	Positive	Positive	32" x 82"
18	Positive	Positive	40" x 84"
19	Positive	Positive	41" x 84"
20	Negative	Negative	N/A
21	Positive	Positive	41" x 84"

Door Number	Door Result	Doorjamb Result	Dimensions (Width x Height)
22	Positive _	Positive	39.5" x 84"
23	Positive	Positive	39.5" x 84"
24	Positive	Positive	52" x 86"
25	Negative	Negative	N/A
26	Positive	Positive	39" x 84"
27	Negative	Negative	N/A
28	Positive	Positive	41" x 84"
29	Negative	Negative	N/A
30	Negative	Negative	N/A
31	Positive	Positive	41" x 84"
32	Positive	Positive	32" x 82"
33	No Door	Positive	32" x 82"
34	No Door	Positive	41" x 84"
35	Positive	Positive	82"x64"
36	Positive	Positive	41" x 84"
37	No Door	Negative	N/A
38	Positive	Positive	41" x 84"
39	Positive	Positive	41" x 84"
40	No Door	Positive	76" x 81"
41	Positive	Positive	111" x 118"
42	No Door	Positive	76" x 81"
43	Negative	Negative	N/A
44	Negative	Negative	N/A
45	Negative	Negative	N/A
46	Positive	Positive	41" x 84"
47	Negative	Negative	N/A
48	Negative	Negative	N/A

Table II: Painted Miscellaneous Surfaces

Room Number/Name	Location	Description
Exterior	Side C2	White Metal Roof Drain
Exterior	Side A1	White Metal Roof Drain #1
Exterior	Side A3	White Metal Roof Drain #1
Exterior	Side C	White Metal Roof Drain#1
Exterior	Side A1	White Metal Roof Drain #2
Exterior	Side A3	White Metal Roof Drain #2
Exterior	Side A2	White Wood Overhead Door
Exterior	Side A1	White Wood Overhead Door #1
Exterior	Side A1	White Wood Overhead Door #4
Exterior	Side A2	White Metal Overhead Doorjamb #1
Exterior	Side A1	White Metal Overhead Doorjamb #1

Room Number/Name	Location	Description
Exterior	Side A1	White Metal Overhead Doorjamb #3
Exterior	Side A3	White Metal Overhead Doorjamb #3
Exterior	Side D2	Concrete Doorway Overhang
Exterior	Side B2	Concrete Doorway Overhang
Exterior	Side B2	White Wood Door
Exterior	Side D2	White Wood Door
Exterior	Side B2	Metal Door Frame
Exterior	Side D2	Metal Door Frame
Exterior	Side A2	Metal Door Frame #1
Exterior	Side A2	Metal Door Frame #2
Room 27	Side C	White Concrete Ledge Below Mural
Room 27	Side C South	Brown Metal Stair Rail
Room 27	Side C North	Brown Metal Stair Rail
Room 4	Side B	Red Paint on Concrete Wall
Room 12	Side A	White Concrete Wall
Room 12	Side D	White Concrete Wall
Room 13	Side A	White Concrete Wall
Room 13	Side B	White Concrete Wall
Room 13	Side C	White Concrete Wall
Room 15	Side B	White Concrete Wall
Room 15	Side C-1	White Concrete Wall
Room 15	Side A-2	White Concrete Wall
Room 15	Side D	White Concrete Wall
Room 15	Side C-2	White Concrete Wall
Room 15	Side D	Green Concrete Wall
Room 27	Side D	White Concrete Wall
Room 30	Side B	Green Sheetrock Wall
Room 33	Side A	Grey Concrete Wall

Table III: Surfaces

Sample Number	Sample Location	Concentration (µg/ft²)	Ciearance Level (µg/ft²)
1	Room 1	53.57	40
2	Room 2	63.81	40
3	Room 3	25.38	40
4	Room 4	282.05	40
5	Room 5	318.92	40
6	Room 6	129.08	40
7	Room 7	128.97	40
8	Room 8	261.13	40
9	Room 9	86.29	40
10	Room 10	120.66	40

Sample Number	Sample Location	Concentration (µg/ft²)	Clearance Level (µg/ft²)
11	Room 11	51.79	40
12	Room 12	211.21	40
13	Room 13	360.23	40
14	Room 14	591.56	40
15	Room 15	74.67	40
16	Room 16	31.62	40
17	Room 17	85.81	40
18	Room 18	21.33	40
19	Room 19	49.37	40
20	Room 20	35.73	40
21	Room 21	51.09	40
22	Room 22	25.24	40
23	Room 23	198.90	40
24	Room 24	168.53	40
25	Room 25	64.56	40
26	Room 26	116.75	40
27	Room 27 East	79.04	40
28	Room 27 Center	164.66	40
29	Room 27 West	28.16	40
30	Room 27 Composite	73.37	40
31	Room 28	59.71	40
32	Room 29	33.03	40
33	Room 30	<21.33	40
34	Room 31	31.77	40
35	Room 32	66.49	40
36	Room 33	164.44	40
37	Room 34	295.83	40
38	Room 35	94.75	40
39	Room 36	150.95	40
40	Indoor Firing Range Front	2280.93	200
41	Indoor Firing Range Rear	9999.33	200

Specific sampling locations, chain of custody forms, the analytical data and the labeled floor plans related to this Lead-Based Paint Inspection and Surface-Dust Sampling Event are included in the Appendix of this Report.

#### DISCLOSURE STATEMENT AND OWNERS LEGAL OBLIGATION

Federal law requires, to the extent this facility would be covered by HUD guidelines and EPA proposed regulations, that analytical results associated with Lead-Based Paint Inspections/Risk Assessments be disclosed to prospective renters, lessees or tenants entering into or renewing a lease, or to prospective purchasers prior to obligation under a sales contract if lead-based paint is found. If the inspection finds that lead-based paint is not present in certain multifamily dwelling units, which are to be leased, the dwelling unit(s) is exempt from disclosure requirements.

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However, for dwelling units, which are being sold, not leased the owner still has certain legal responsibilities to fulfill under Federal law **even if no lead-based paint is identified.** Property owners and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that information is provided in order to protect children from lead-based paint hazards.

Information regarding the legal obligation to disclose results associated with lead-based paint inspections and/or risk assessments to tenants and/or purchasers can be obtained from the National Lead Information Center Clearinghouse (1-800-424-LEAD). This information is specified in 24 CFR, part 35 and 40 CFR, part 745 (published in the *Federal Register*, Volume 61, Number 45, April 6, 1996, beginning on p. 9064).

#### LEAD-BASED PAINT INFORMATION

You may contact the National Lead Information Center Clearinghouse (1-800-424-LEAD) to obtain HUD and EPA brochures, question and answer booklets, the regulations mentioned in this report and other information regarding lead-based paint disclosure.

### **APPENDIX**

Chain of Custody Analytical Data

**XRF** Data

Certificates

Digital Photographs

Labeled Floor Plans
Doors and Doorjambs
Miscellaneous Surfaces

1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159

Marshall Environmental Management, Inc. Chain of Custody

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marshenv@swbell.net

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|            | 0146-L8P-120209-JM Company | Clff6 - LBP - 120209 - Jim Company Company Company | Clearly Company Address Address Address | Chearly Company Attention Attention Address Address Address Phone Phone | Client/Company         Company         Client/Company         Company           Attention         Address         Address         Address           Phone         Number         Phone         Phone           Namber         Number         Phone | Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   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Close   Close   Close   Close   Close   Close   Close   Close   Close   Close   Close   Close   Close   Close   Close   Clos | Company   Address   Addr | Chicago   Company   Company   Attention   Company   Attention   Attention   Attention   Attention   Company   Attention   At | Congas, Attention   Address   Addr | Close   2006 - 12006 - 200   Company   Address   Addre | Cloud   Phone   Phon | City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   City   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Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp | Common                  | Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company  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Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matter:   Matt |

Sample Media	ledia	Phase Contrast Mich
Micro-Vacuum	MV	Polarized Light Micr
Mold Plate	MP	
Spore Trap	ST	
Swab	SW	
Tape-Lift	T.	

-			
Turn-Around-Time	Standard 5-7 Business Days	Rush Next Day	Immediate Same Day
	/		
L			
PCM	PLM		
ntrast Microscopy	Light Microscopy		



## Environmental Chemistry Analysis Report

QuanTEM Set ID:

178371

Date Received:

12/21/09

Received By:

Eric Caves

Date Sampled:

Time Sampled:

Analyst:

EC

Date of Report:

12/23/2009

AIHA ID: 101352

Client:

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

NA

Location:

NA

Project No.: 0146-LBP-120209-JM

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
<u></u> 01	1	Wipe	Lead	53.57	21.33	ug/sq. Ft,	12/22/09 15:40	EPA 3051 / NIOSH 9100
002	2	Wipe	Lead	63.81	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
003	3	Wipe	Lead	25.38	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
004	4	Wipe	Lead	282.05	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
005	5	Wipe	Lead	318.92	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
006	6	Wipe	Lead	129.08	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
007	7	Wipe	Lead	128.97	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
800	8	Wipe	Lead	261.13	21.33	ug/sq. Ft,	12/22/09 15:40	EPA 3051 / NIOSH 9100
009	9	Wipe	Lead	86.29	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
010	10	Wipe	Lead	120.66	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
011	11	Wipe	Lead	51.79	21,33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

Inless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Vipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe naterial.

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### Environmental Chemistry Analysis Report

QuanTEM Set ID:

178371

Date Received:

12/21/09

Received By:

Eric Caves

Date Sampled:

Time Sampled:

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Date of Report:

12/23/2009

AIHA ID: 101352

Client:

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Project No.:

NA

Location: NA

0146-LBP-120209-JM

Date/Time Reporting **QuanTEM** Method Parameter Results Limits Units Analyzed ID Client ID Matrix ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 211.21 21.33 12 Wipe Lead 112 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 360.23 21.33 013 Wipe Lead 13 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 591.56 21.33 14 Wipe Lead 014 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 15 Wipe Lead 74.67 21.33 015 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 31.62 21.33 016 16 Wipe Lead 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 21,33 85.81 17 Wipe Lead 017 <21.33 21.33 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 18 Wipe Lead 018 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 49.37 21.33 19 Wipe Lead 019 9100 21.33 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 20 Wipe Lead 35.73 020 9100 21.33 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 51.09 021 21 Wipe Lead 9100 ug/sq. Ft. 12/22/09 15:40 EPA 3051 / NIOSH 25.24 21.33 022 22 Wipe Lead 9100

Note: Sample results have not been corrected for blank values.

Inless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Vipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe naterial.

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## Environmental Chemistry Analysis Report

QuanTEM Set ID:

178371

Date Received:

12/21/09

Received By:

Eric Caves

Date Sampled: Time Sampled:

Analyst:

EC

Date of Report:

12/23/2009

AIHA ID: 101352

Client:

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

NA

Location:

NA

Project No.:

0146-LBP-120209-JM

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
723	23	Wipe	Lead	198.90	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
024	24	Wipe	Lead	168.53	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
025	25	Wipe	Lead	64.56	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
026	26	Wipe	Lead	116.75	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
027	27-E	Wipe	Lead	79.04	16.00	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
028	27-C	Wipe	Lead	164.66	16.00	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
029	27-W	Wipe	Lead	28.16	16.00	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
030	27-	Wipe	Lead	73.37	16.00	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
031	28	Wipe	Lead	59.71	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
032	29	Wipe	Lead	33.03	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
033	30	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

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## Environmental Chemistry Analysis Report

QuanTEM Set ID: 178

178371

Date Received:

12/21/09

Received By:

Eric Caves

Date Sampled:

Time Sampled:

Analyst:

EC

Date of Report:

12/23/2009

AIHA ID: 101352

Client:

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Project No.:

NA

Location:

NA

0146-LBP-120209-JM

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
734	31	Wipe	Lead	31.77	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
035	32	Wipe	Lead	66.49	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
036	33	Wipe	Lead	164.44	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
037	34	Wipe	Lead	295.83	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
038	35	Wipe	Lead	94.75	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
039	36	Wipe	Lead	150.95	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
040	37	Wipe	Lead	2280.93	21.33	ug/sq. Ft.	12/22/09 15:40	EPA 3051 / NIOSH 9100
041	38	Wipe	Lead	9999.33	21.33	ug/sq. Ft,	12/22/09 15:40	EPA 3051 / NIOSH 9100

Authorized Signature:\_

Eric Caves, Analyst

Note: Sample results have not been corrected for blank values.

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### Supplemental Report **QAQC** Results

QA ID: Test:

7252 Lead

Date: Matrix: 12/22/2009 Wipe

Lab Number: Approved By:

178371 Eric Caves Date Approved: 12/22/2009

Notes:

Blank Data:

Type of Blank	Blank Value
Initial = =	0
Continuing	0
Final	0

#### Standards Data:

Standard	Low Limit	Obtained	High Limit
FCV	225	258	275
CCV	225	255;	275
ICV	22.5	25.5	27.5
RLVS	12.8	17	19.2

#### Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result +   Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MSW 4	0.000	5369.000	5849.000	108.9	5746.000	107.0	1.8
MSW 3	0.000	5369.000	5790.000	107.8	5622.000	104.7	2.9
MSW 2	0.000	5369.000	5436.000	101.2	5696.000	106.1	4.7
MSW I	0.000	5369.000	5356.000	99.8	5412.000	100.8	1.0

Authorized Signature:

Eric Caves, Analyst

42 43

01/12/10 13:47:07

	_	1.00 < LOD : 0.03 < LOD : 0,03	1.00 < LOD: 0.03 < LOD: 0.03	1.00 < LOD; 2.13 < LOD; 0.12	$0.50 \pm 0.10$ $0.50 \pm 0.10$	1.00 < LOD: 0.03 < LOD: 0.03	1,00 < LOD; 0.10 < 1,0D; 0.10	L00 < LOD : 0.03 < LOD : 0.03	1.00 < LOD : 0.09 < LOD : 0.09	1.00 < LOD; 0.03 < LOD; 0.03	L.00 < LOD ; 0.03 < LOD ; 0.03	1,00 < LOD ; 0,03 < LOD ; 0,03	1.00	1.00 < LOD : 0,03	1.00 < LOD : 0.03	1,00 < LOD ; 0,03	1,00 < LOD ; 0,03 < LOD ; 0,03	1.00 < LOD : 0.04	1.00 < LOD : 0.04	1.00 < LOD : 0.07	1,00 < LOD (0.03 < LOD (0.03	1.00 < LOD: 0.03 < LOD: 0.03	1,00 < LOD ; 0,31	1.00 < LOD : 0.05 < LOD : 0.05	1.00 < LOD : 0.11 < LOD : 0.11	1.00 < LOD : 0.03	1.00 < LOD 1.07 < LOD 1.0.13	1.00 < LOD : 0.03 < LOD : 0.03	1.00 < LOD : 0.05 < LOD : 0.05	1,00 < LOD   0,03 < LOD   0,03	100 < LOD : 0.05 < LOD : 0.05	1.00 < LOD : 0.31 < LOD : 0.31	1,000 < LOD : 0.03 < 1,0D : 0,03	1.00		1.00 < LOD: 0.03 < LOD: 0.03	1.00 < LOD : 0.03 < LOD : 0.03 1.00 < LOD : 0.35 < LOD : 0.35	1.00 < LOD: 0.03 < LOD: 0.03 1.00 < LOD: 0.35 < LOD: 0.35 1.00 0.70 ± 0.20 < LOD: 0.03
													Positive				Neganye		Negative	Negative	Negative	Negative	Negative	Negalive	Negalive	Negative						Nametro	Mension	Magaire	TAI Chievana and and	Negative	Negative	Negative Negative Negative
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Marshall Environmental Minagement Inc. 1601 SW 89th Street, Suite A100 Oklahoma City, OK 73159

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Marshall Environmental Management Inc. 1601 SW 89th Street, Suite A100 Oklahoma City, OK 73159

# Department of Environmental Quality

## MARSHALL ENVIRONMENTAL MANAGEMENT

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### FIRM

Certification # OKFIRM11160

Issued on: 4/1/2009

Expires on 3/31/2010

Air Quality Division Division Director



Environmental Programs Manager Air Quality Division

# Department of Environmental Quality

## CHARLES MARSHALL

INSPECTOR/RISK ASSESSOR

Certification # OKRASR13418

Issued on: 4/1/2009

Expires on 3/31/2010

Division Director
Air Quality Division



Environmental Programs Manager Air Quality Division



Figure 1. Brown Stair Rail-Room 27 (Side C - North)



Figure 2. Brown Stair Rail-Room 27 (Side C - South)



Figure 3. White Concrete Ledge - Room 27 (Side C)

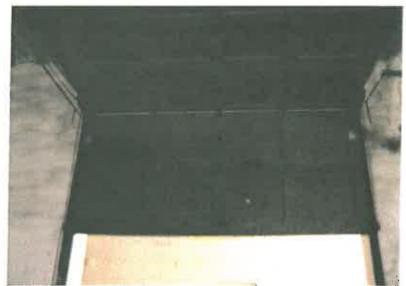


Figure 4. Overhead Door (# 12)



Figure 5. Overhead Door (# 12) (Opposite Side)

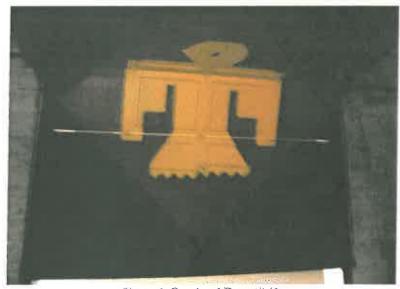


Figure 6. Overhead Door (# 41)



Figure 7. Overhead Door (# 41) (Opposite Side)



Figure 8. Exterior Door (Side D-2)



Figure 9. Door Frame (Side A-2. #1)



Figure III. Door Frame (Side A-2, #2)



Figure 31. Exterior Door Frame (Side 8-2)



Figure 12. Exterior Door Frame (Side D-2)





Figure 14. Exterior Door (Side B-2)



Figure 15. Decreasy Overhang (Side D-2)



Figure 16. Garage Door (Side A2)



Figure 17. Garage traor (Suit A-1, 41)



Figure 18. Garage Door (Side A-1, #3)

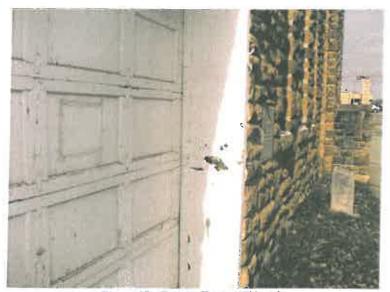


Figure 19. Garage Frame (Side A2)





Figure 21. Garage Frante (Side A-3, 43)



Figure 22. Garage Frame (Side A-1, #1)



Figure 21. Garage Frame (Side A-1 #3)



figure 24. Roof Drain (Side A-1, #2)



Figure 25. Roof Drain (Side A-1. #1)



Figure 26. Roof Drain (Side A-3, #1)



Figure 27. Roof Drain (Side A-3, #2)



Figure 28. Roof Drzin (Side C-1)

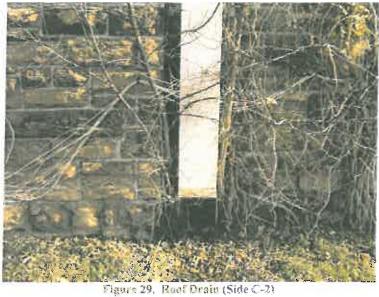
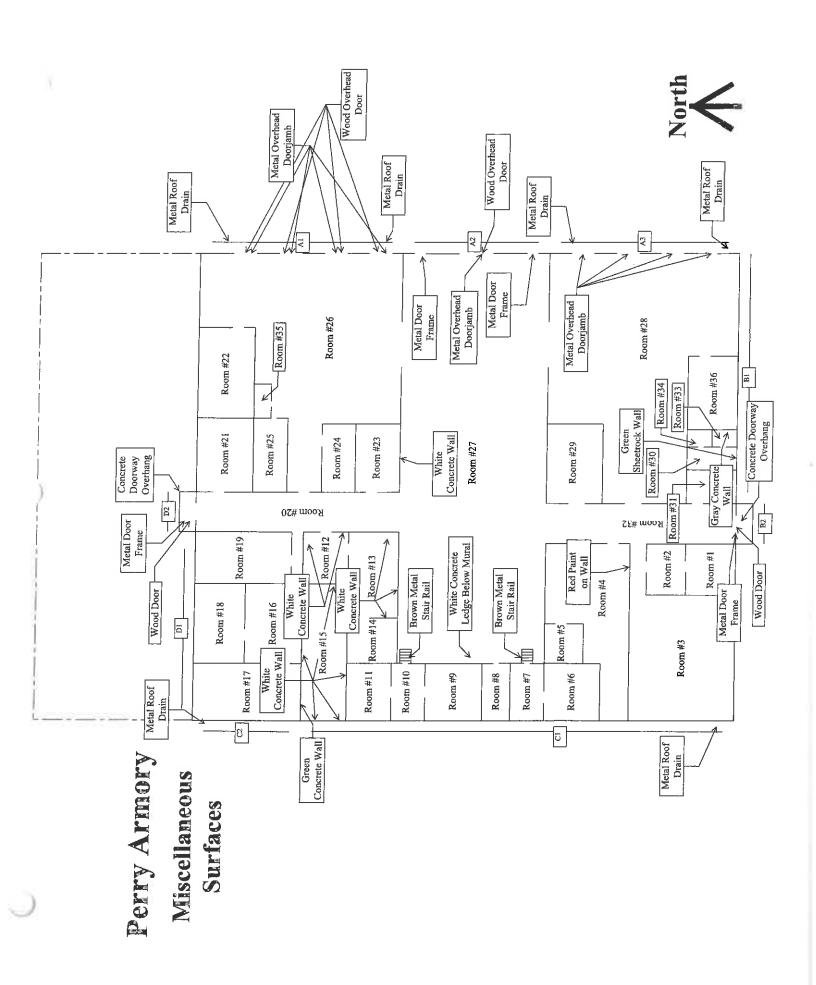
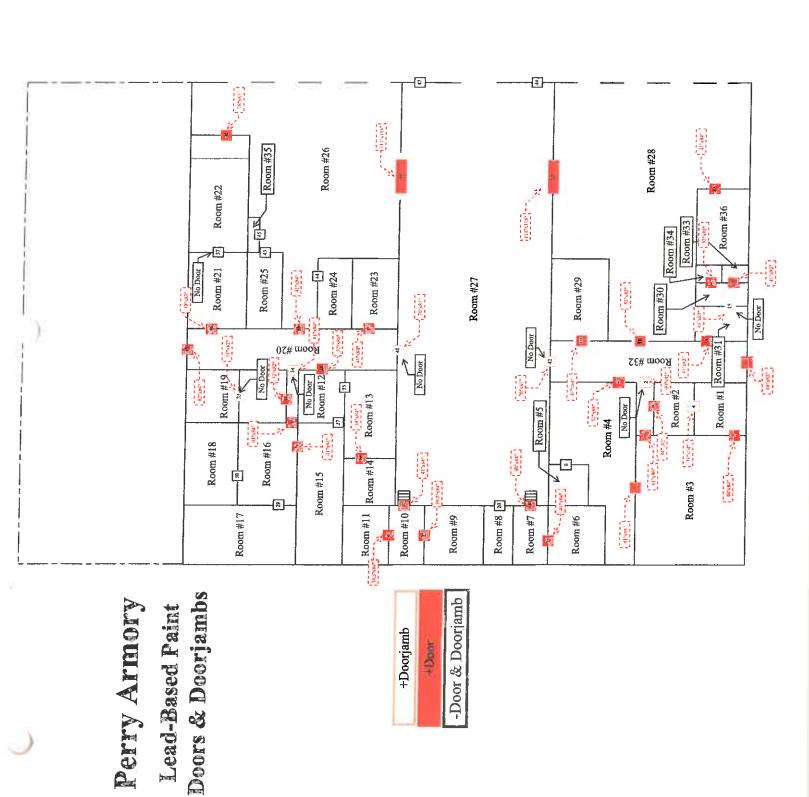




Figure 30. Room #4 - Red Paint (Side B)







### **SCOPES OF WORK**

### Scope of Work For

### Abatement of Non-Friable and/or Non-Regulated Asbestos at The Former Perry, Pawhuska and Miami National Guard Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from licensed asbestos abatement contractors for asbestos remediation services at the former Perry, Pawhuska and Miami National Guard Armories. Qualified bidders shall follow all appropriate OSHA requirements. This scope of work (SOW) describes the non-friable and/or non-regulated asbestos containing materials (ACM) that will either be removed or left in place. The ACM to be removed shall be included in your bid.

- Friable and regulated ACM shall be removed as described in the attached project designs.
- Non-friable and / or non-regulated ACM shall be removed or left in place as described below.
- For more information on asbestos locations and quantities of asbestos to be removed, see the attached asbestos inspection reports and project designs for each armory.

Marshall Environmental will be performing oversight on this project. Once asbestos has been removed, contractor shall contact Marshall Environmental to perform the final inspection. The phone number for Marshall Environmental is (405) – 616-0401. Marshall Environmental will determine if all asbestos has been appropriately removed or if additional work needs to be performed.

The Perry Armory is located at 309 North 14<sup>th</sup> Street, Perry, Oklahoma 73077. The building does have available electricity but does not have available water to use during remediation.

The Pawhuska Armory is located at 836 East 8<sup>th</sup> Street, Pawhuska, Oklahoma 74056. The building <u>does not</u> have available electricity and <u>does not</u> have available water to use during remediation.

The Miami Armory is located at 830 D Street Southeast, Miami, Oklahoma 74354. The building <u>does not</u> have available electricity and <u>does not</u> have available water to use during remediation.

### Pawhuska Armory

• Remove sheetrock from wall in Room Number 10.

### Perry Armory

- Remove floor tile and mastic from Room Numbers 16, 17, 18, 19, and 34;
- Remove all sheetrock as described in the attached Perry Armory Project Design.

### Miami Armory

- Remove floor tile and mastic from Room Numbers 3, 4, and 5.
- Remove mastic on flu in Room Number 1.
- <u>Do Not Remove</u> caulking from around all windows.
- Remove all TSI as described in the attached Miami Armory Project Design.

### Project Design Review Form

### Oklahoma Department of Labor Asbestos Division

4001 N. Lincoln Blvd., Oklahoma City, OK 73105

Perry Armory	
Project Name:	

Date: 10-6165 Project No.:

02-25-10

Charles L. Marshall OKPD#140028 Project Designer:

Phone - (405) 526-1500 Fax - (405) 524-6793

Disapproved

Approved

<u>ا</u> ا ا					
103 F EN	ITEM NO.	ITEM	ACCEPT.	NOT ACCEPT. ABLE	CABILITA
1AH25 10/ 1		A statement that DOL Abatement of Friable Ashastre Malesials Dutes			
		apply.	×		Oklahoma Department of Labor (Title 40 Sections 451-457), OAC 380:50 and Abatement of Friable Materials Rules 29 CFR 1926 Construction Industry Standards
	ri.	Sequencing and phasing of work.	×		One phase Rooms 9.10.12.24.25 and 35
	ri	Identification of means of egress and a fire protection plan.	×		1 = 70
	4	The quantity, type, and location of asbestos materials to be abated.	×	-	Appox. 3000 square feet of wallboard and ceiling hoard containing 26, chosodite sehesine
39-90	۵	Abatement methods, and techniques, and numbers of glovebags or mini-containment.	×		Procedures shall be conducted similar to and prescribed in 380:50-23-4 with the exception of externally vented and monitored neg air machines.
	ωi	Numbers of area alr monitoring pumps.	×		One background sample per room. Minimum of 2 personal or 1 for every 4 workers. One 30 min. exclusion sample. 1 Inside the work area. 1 outside the decontamination facilities. 1 outside the load-out during load-out activities. 1(30 minute) excursion sample. 1 sample per AFD vented externally. 1 clearance samples per room for 6 hours and 3000 litters.
1		Numbers, capacities, location, and discharge points, if any, of negative air machines.	×		One AFD per room with manometer and monitored. AFD is being exhausted to the exterior of building
	89	Details of the project containment(s),	×		Shut down and lock out all HVAC systems in work area and install critical barriers at all enfrances into work area. Install two separate two stage load-outs. Lock-out all electrical power in work area. Power supplied through GFCI circuits.
	6	Details of the decontamination system(s).	×		Three stage centralized decontamination unit with affach AFD
RECEI	6	The extent to which asbestos-contaminated soits, if any, must be removed, and the sampling methods of determining the efficacy of such removal.	×		None
₹  0=. 7:2		Special materials or methods required to protect objects in the work area should be detailed, (e.g., phwood over carpeting or hardwood floors to prevent damage from scaffolds and falling material).	×		None
501 201		Any variances from the Abatement of Friable Asbestos Materials Rules.	×		Variances Accepted
.8 h	Penad	OD he Demarkant of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second			

The Department of Labor reserves the right to require additional engineering or environmental controls consistent with the Abatement of Friable Asbestos Materials Rules which may be necessary because of discrepancies where this project design and field conditions, or from unapplicated changes in field conditions.

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DATE: 3~/8-10

REVIEWED BY:

3/18/10 DATE:

### ASBESTOS PROJECT DESIGN

AND

SCOPE OF WORK

RELATED TO THE

ASBESTOS ABATEMENT

AT THE

DEQ OKLAHOMA ARMORY RESTORATION PROJECTS

DCS Project #
(DCS Bid Packet of Project #)

ODOL Project #\_\_\_\_

**Perry Armory** 

February 12, 2010 (Version 1.0)

Services Provide For:
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson Ave.
Oklahoma City, OK 73102

Asbestos Inspection Services Provided By: Marshall Environmental Management, Inc. 1601 SW 89<sup>th</sup> Street, Suite A-100 Oklahoma City, Oklahoma 73159 (405) 616-0401

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### I. SCOPE OF WORK

This Project Design has been prepared to allow for the safe and economical removal of friable Asbestos Containing Material (ACM) as part of the Oklahoma Department of Environmental Quality (DEQ), Land Protection Division's (LPD), Oklahoma Armory Restoration Projects. This Asbestos Abatement Project will receive a Project Number that is to be assigned by the Oklahoma Department of Labor (ODOL).

This Project Design will be used to address the removal of friable ACM from the Armory. The scheduled for abatement will be determined by the DEQ LPD. The Project Design includes the Scope of Work for the Abatement of Friable Asbestos and the approximate locations and quantities of friable ACM to be abated at the Armory. Once hired, an ODOL Licensed Asbestos Abatement Contractor will file the individual notifications required by ODOL and DEQ (NESHAP). The information on the Armory floor plan and the estimated quantities and types of ACM is provided in the Appendix.

The work to be conducted for the asbestos abatement work at this Armory involves the removal of friable asbestos. Therefore, the ODOL rules that govern the removal of friable asbestos containing materials shall apply to this Project.

The identified friable ACM present in this Armory consists of in the plasters used for bedding tape, joint and mud compounds on wallboard and ceiling boards at the locations identified in the Table provided in the Appendix of this Project Design.

The Licensed Asbestos Contactor will also be authorized by the DEQ LPD to conduct the removal of non-friable asbestos floor tile and mastic, and potentially cement asbestos (transite) exhaust flues. The removal of non-friable ACM is not to be considered a part of the Project Design for ODOL notification purposes. The estimated quantities of non-friable ACM to be removed are identified in the Table provided in the Appendix of this Project Design. The Licensed Asbestos Contactor shall indicate the quantity of non-friable ACM to be abated on the Project's NESHAP Notice. The abatement of non-friable floor tile and mastic shall be consistent with the requirements of the Occupational Safety and Health Administration regulations 29 CFR 1910.1101 and the recommendations of the Resilient Floor Tile Institute.

The methods used for work area preparation, cleaning, and abatement of the friable ACM shall be consistent with the requirements of the Oklahoma Rules for Abatement of Friable Asbestos Materials, OAC 380:50 (ODOL Rules).

### II. RESPONSIBLE PARTIES AND CONSULTANTS:

### Licensed Contractor:

An ODOL Licensed Asbestos Contractor is to be selected based on a successful bid submittal. The Oklahoma Department of Central Services (DCS) Construction and Properties Division will oversee the bidding and the Award of the Contract. The DEQ LPD will be the Project's Contracting Officer.

### Licensed Project Designer:

Marshall Environmental Management, Inc.

1601 SW 89th Street Suite A-100

Oklahoma City, Oklahoma 73159

(405) 616-0401 (Office)

(405) 820-1656 (Mobile)

(405) 681-6753 (Fax)

marshenv@swbell.net

En mg

Charles L. Marshall, Ph.D., C.I.H., OKPD-140028

### Owner's Representative:

Dustin Davidson, Environmental Programs Specialist Oklahoma Department of Environmental Quality Land Protection Division 707 N. Robinson Oklahoma City, OK 73102 (405) 702-5115 (Office) (405) 702-5101 (Fax) dustin.davidson@deq.ok.gov

### Department of Central Services:

DCS Project Manager
To be identified by DCS in the Bid Packet.

### III. LOCATION, TYPES OF ACM AND ESTIMATED QUANTITIES

The Appendix to the Project Design contains the documentation on the location and estimated quantities for the type of ACM identified in the Armory.

The types of the response actions to be taken, methods for removal, quantities, dates and responsible parties performing the abatement, air monitoring and waste disposal landfill locations shall be indicated on the Licensed Asbestos Contractor's NESHAPS Notice and Notification of Asbestos Abatement that are to be filed with DEQ and ODOL, respectively.

The ODOL Asbestos Division will assign this Armory Project. The ODOL will utilize the approved Project Design, and any subsequent Project Design Amendments, as a basis to assess the Project's required scope of work, sequence of events, abatement procedures, air monitoring, clearance sampling and any other related requirements of ODOL Rules.

The asbestos abatement work will also include removal of all of the wallboard and ceiling board that contains asbestos in the bedding tape and or mud compounds for Rooms 9, 10, 12, 24, 25, and 35. The friable ACM, consisting of 2% Chrysotile, is present in the beading tape mud and it is assumed that a similar mud may cover joints, seams and nails with in these rooms. The quantity of ceiling board is estimated at approximately 3000 square feet. These quantities are only estimates and the actual quantity that the Contractor must verify may vary. Regardless of variations in quantity, all of the wallboard and ceiling board in the work areas associated with these rooms, and the associated beading tape and mud or joint compounds, shall to be abated by the Licensed Asbestos Contractor.

The Asbestos Abatement Contractor shall remove all non-friable asbestos containing floor tiles and mastics and any of the non-friable cement asbestos exhaust flues identified for removal by the DEQ. These response actions are not governed by the ODOL rules but will require a negative exposure assessment and clearance monitoring to be evaluated by the DEQ and the Project Designers Representative.

The amounts and types of ACM are provided as an Appendix to this Project Design. Questions regarding the Scope of Work shall be addressed in writing to the DCS Constructions and Properties Division (DCS) Representative.

### IV. SEQUENCE OF EVENTS, PROJECTED DATES AND DURATION

The Abatement Contractor will follow the following sequence of events.

- 1. The Licensed Asbestos Contractor shall file required ODOL and NESHAP Notification NESHAPS notifications. **Note:** Copies of the notifications are to be provided to DEQ LPD and the Licensed Project Designer.
- 2. Licensed Asbestos Contractor will mobilize to begin prep work based upon the DEQ LPD approval to start work and after coordination is confirmed with any appropriate authorities (e.g. armory occupants) for the work dates and times of work approved by the DEQ LPD at the specific Armory.
- 3. The Air Monitoring Firm shall conduct background air monitoring prior to prep inspection.
- 4. As part of the preparation for abatement, the Licensed Asbestos Contractor shall isolate adjacent areas and install critical barriers.
- 5. Establish GFI circuits and a Decon for use throughout prep.
- 6. Establish a Centralized Decon for use during prep work and abatement
- 7. Place abatement supplies in the Armory rooms.
- 8. Surround regulated work areas with asbestos hazard warning tape.
- 9. Perform any pre-cleaning of loose ACM, if necessary, to complete the Prep.
- 10. Prepare any rooms requiring abatement of wallboard or ceiling board plaster mud and/or joint compounds in a manner similar to the requirements of ODOL Rules 380:50-23-4, except that the decon and load out shall be at a remote location or room with the Armory were they can attached a negative air machines to the dirty room as specified in this Project Design and ODOL Rules. Each separate room will have 2-6-mil layers of polyethylene sheeting put in place at the doorway as an "air lock" (e.g. Z-Flap).
- 11. As stated above, provide adequate negative pressure HEPA filtered exhaust machines to establish a negative pressure to the Central Decon Facility and the associated loadout facility for all phases of abatement work.
- 12. When prep is completed, schedule an ODOL Prep Inspection.
- 13. Perform the asbestos abatement and loadout all wastes.
- 14. Schedule any interim ODOL visual inspections per ODOL Inspector requirements.
- 15. Upon completion of final cleaning call for the ODOL visual inspection.
- 16. Perform post abatement lock-down applications as required.
- 17. Schedule the final visual inspection with ODOL and conduct clearance sampling to coincide with the ODOL inspection requirements.
- 18. Schedule any final ODOL inspection that may be required.
- 19. Schedule the non-friable ACM with the Owners Representative.
- 20. Conduct a final inspection to verify the completion of the Scope of Work with the Project Designer's representative.
- 21. Tear down prep work and critical barriers and demobilize after approval by the ODOL and Owner's Representative (DEQ LPD).
- 22. File final project documents with ODOL and provide a copy to the DEQ LPD Representative.

The Licensed Asbestos Contractor shall file the notification of the intended start date based upon the schedule to be determined by the DEQ LPD Representative. This Project is anticipated to start, once a Licensed Contactor is selected as a successful bidder and a Notice to Proceed is issued by the DEQ LPD and DCS.

The Project duration is estimated to take less than less than five days to complete friable ACM abatement. Clearance testing will be conducted per ODOL rules or as specified in the approved Project Design or any subsequent Project Specific Project Design Amendments.

### V. GENERAL REQUIREMENTS

### A. Asbestos Contractor

The DCS Bid Packet will be used to select an ODOL Licensed Asbestos Abatement Contractor for use by the DEQ on this Oklahoma Armory Remediation Project. The ODOL Licensed Asbestos Contractor shall perform the asbestos abatement work in accordance with the ODOL Rules, this Project Design, any Site Specific Project Design Amendments and all applicable rule and regulations issued by those authorities' having jurisdiction.

### B. Codes and Regulations

The Asbestos Abatement Contractor (herein and hereafter referred to as the Contractor) shall abide by this Project Design and the requirements, which govern asbestos removal in OAC 380:50 and transportation of asbestos waste materials to include, but not limited to, the following:

- 1. 29 CFR 1910, OSHA General Industry Standards.
- 2. 29 CFR 1926, OSHA Construction Industry Standard.
- 3. 29 CFR 1926, 1101 OSHA Asbestos Construction Standard
- 3. 40 CFR 61, Subpart M (NESHAPS) enforced by ODEQ.
- 4. ANSI Z88.2 latest edition (Respiratory Protection).
- Oklahoma Asbestos Control Act Title 40 Sections 450-456.
- 6. OAC 380:50 (All-inclusive), Oklahoma Rules for Abatement of Friable Asbestos Materials.
- 7. 49 CFR (USDOT) Hazardous Material Transportation Regulations.
- 8. All Applicable State Statutes, County and City Codes/Ordinances
- 9. OAC 252:100-40, Air Pollution Control Rules, Control of Emission of Friable Asbestos during Demolition and Renovation Operations (replaces OAC 252:100-41-16).
- 10. OAC 252:515-19, Management of Solid Wastes (DEQ Asbestos Land Protection Division Asbestos Disposal Requirements).
- 11. Resilient Floor Covering Institute (RFCI) Recommended Work Practices for Removal of Resilient Floor Covering.

  <a href="http://www.rfci.com/files/pdf/RFCIRecommended9-04.pdf">http://www.rfci.com/files/pdf/RFCIRecommended9-04.pdf</a>

Wherever conflicts arise in any of this Project Design's General Requirements or Procedures and/or among the applicable Rules and Regulations, the most stringent rules shall apply, subject to approval by ODOL or other authorities' having jurisdiction (e.g. DEQ). Wherever allowed by the authority that has jurisdiction, a request for a variance can be submitted, provided it is acceptable to the Owner's Representative (DEQ) and its representatives in advance of consideration by the authority having jurisdiction.

### C. Notifications

The Asbestos Abatement Contractor, prior to any abatement work, shall be required to file a Notifications of Asbestos Removal with both the ODOL Asbestos Division and the DEQ NESHAP Division (per Subchapter 9 ODOL Rules). These processes require ten days, unless the Agency waves the waiting period due to an emergency. The Contractor shall also be responsible for submitting any request for variances within this period of notification.

Note: A NESHAP notification shall be filed by the Licensed Asbestos Contractor with the DEQ Air Quality Division. A copy is to be provided to the ODOL, Project Designer and DEQ LPD representative. All quantities and disposition of waste shall conform to the notification. Changes in the amounts of asbestos waste materials (greater or less than 20% of the notified amounts) shall require that the Licensed Asbestos Contractor files a revised NESHAP Notice with the DEQ AQD at the time the waste is prepared for disposal. The DEQ LPD representative shall approve the landfill indicated on the NESHAP form prior to the Contractor filing the notification.

A copy of the required NESHAP Notice can be obtained at the following DEQ website: <a href="http://www.deq.state.ok.us/aqdnew/asbestos/NESHAPfm.pdf">http://www.deq.state.ok.us/aqdnew/asbestos/NESHAPfm.pdf</a>

A copy of the ODOL Asbestos Project Check list can be obtained from the following ODOL web site: http://www.ok.gov/odol/documents/AsbestosProjectChecklist.pdf

### D. Waste Disposal

The Licensed Asbestos Contractor is responsible for all fees for wastes, storage, transportation and disposal. Unless properly insured, in accordance with the Oklahoma Asbestos Control Act, the Licensed Asbestos Contractor shall hire a Licensed and Insured Asbestos Disposal Contractor that is also a Licensed Asbestos Contractor, for the transportation and disposal of all asbestos wastes as specified in the Project Design and in accordance with the NESHAP notification and Subchapter 40 of the Oklahoma Clean Air Act.

The Contractor or Licensed Transporter shall be responsible to provide onsite storage and licensed transportation of all asbestos wastes to the DEQ Permitted Asbestos Landfill where the ACM will be disposed of at the end of the job. The Project's NESHAP notification shall list the disposal site to be used for the Project.

During periods of time when the asbestos waste is to be stored onsite, the Asbestos Abatement Contractor shall maintain an enclosed and properly placarded waste storage unit and/or waste disposal trailer or roll-off bin, which is to be located in a secure area on the Armory campus at a location determined by the Owner's Representative (DEQ LPD).

The storage area, trailer or roll-off bin shall be prepared with 6-mil polyethylene and placarded in accordance with OSHA and DOT requirements. When not in use, the enclosed storage area, trailer or roll-off bin will be kept locked, wherever possible (e.g. trailer), or sealed tightly (e.g. roll-off bin) to control access to any stored waste. The trailer or storage unit shall be available for inspection to representatives of the ODOL during all site visits, no later than the initial prep inspection.

A uniform style industrial waste manifest or asbestos disposal record shall accompany each load transport to the landfill as specified in the NESHAP regulation. All 6 mil double wrapped wastes, 6-mil double bagged asbestos waste, manifests, landfill disposal records and NESHAP notices shall designate the DEQ and the specific Armory Name (with its address) as the generator of each specific project (e.g. DEQ LPD – Perry Armory – Address and Dates).

The list of DEQ Approved Landfills that can accept Asbestos Waste can be found on the DEQ Land Protection web site at the following web site link: <a href="http://www.deq.state.ok.us/lpdnew/SW/MSWLFsAcceptingAsbestos.htm">http://www.deq.state.ok.us/lpdnew/SW/MSWLFsAcceptingAsbestos.htm</a>

### E. Insurance

The Asbestos Abatement Contractor performing the asbestos abatement and any related contract services (e.g. re-insulation), shall provide the DCS and the DEQ LPD with copies of current Certificates of Insurance. Use of any sub-contracts shall require written approval by the DCS Construction and Properties Division. The Contractor's General Liability Insurance, Worker Compensation, Hired and Non-Owned Auto Insurance shall meet the requirements of the DCS as specified in the Bid Packet and this Project Design, as well as applicable State Statutes and meet the requirements of Section 452 of Title 40, Oklahoma Asbestos Control Act.

### F. Documentation

The Asbestos Abatement Contractor shall complete all documentation as required by the authorities having jurisdiction and those specified in this Project Design. Air monitoring data shall be generated by the Project's Air Monitoring Firm and supplied to the Licensed Asbestos Abatement Contractor for any required submittals upon completion of the clearance sampling.

Upon completion of the job, the Licensed Asbestos Abatement Contractor shall provide the Owner's Representative with copies of ODOL inspections, copy of:

- 1. Asbestos supervisor's daily reports
- 2. List the names of all Licensed Asbestos Personnel and other site workers, visitors and/or other employees with their valid ODOL License Numbers and valid State ID or valid Driver License Numbers.
- 3. Any electrical engineers safety instructions (if required)
- 4. All air monitoring results.
- 5. Final clearance testing results.
- 6. Copies of negative pressure recording devices (if required) tapes.
- 7. All signed asbestos disposal manifests.
- 8. Copies of All ODOL Inspector Forms and Approval for the Project.

### G. Site Security, Electrical Safety and Employee Hazard Communication

All entrances and exits to the regulated work areas within the Armory (i.e. areas marked by asbestos warning signs) and entrance to the central decon shall have an asbestos hazard warning sign attached. During off shift hours, all entryways into the Armory shall be kept locked to restrain unauthorized personnel from entry into the Armory until such time as all the ACM has been removed and clearance sampling has conducted and the final visual inspection has been approved by the ODOL.

A daily log must be maintained by the Licensed Asbestos Abatement Contractor, which includes the names of all Licensed Asbestos Personnel and other site workers, visitors and/or other employees with their valid ODOL License Numbers and valid State ID or valid Driver License Numbers.

The Owner's Representative shall be responsible to see that all required lockout-tagout of electrical lines are preformed in accordance with the OSHA Standards 29 CFR 1910.147 and 29 CFR 1926.417 and applicable Armory Policy. The Licensed Asbestos Contractor and individual

employees who work around electrical energy lines will also perform their own lockout-tagout procedures to de-energize all electrical circuits necessary to ensure worker safety. If an electrical engineers statement is required to work around live electrical circuits, it will be the responsibility of the Licensed Asbestos Contractor to obtain the Engineers Statement in accordance with ODOL Rules. Based on the pre-abatement inspection, no live electricity is anticipated to be left on in the abatement work areas located within the Armory.

The Owner's Representative will be responsible for any required hazard communication notifications of all applicable Armory personnel. Access to the abatement work areas, "the regulated work area", is to be kept to licensed personnel. Access to other areas of the Armory is to be authorized DEQ LPD personnel.

### VI. PREP FOR ABATEMENT

### A. Available Utilities

Special Condition: Some Armories do not have utilities. This may include the supply of potable water for the use in abatement methods, decontamination facility, and wastewater disposal. Also, some armories do not have an active electrical supply hook-up with the local electric utility authority. Those Armories that do not have utilities for electricity, potable water and sewer connections will be identified by the Owner's Representative at the pre-bid site visit or Project walk-through by the DEQ Representative. The Asbestos Contractor will be responsible to provide all utility services in connection with their services for any location that does not have these services. Any fees or cost for the connection and disconnection of these services shall be paid by the Asbestos Contractor as a part of the SOW and are to be included in the cost for the services for these projects.

B. Requirements for the Prep Work for the Abatement of Wallboard and Ceiling Board with Asbestos Containing Plaster Mud's and Joint Compounds.

The Asbestos Abatement Contractor shall prepare the area for abatement in the manner that is similar to and meets the requirements of ODOL regulations OAC 380:50-23-4. The methods for work area preparation are outlined in previous sections of this Project Design and the following requirements.

The Contractor shall ensure that the wallboard and/or ceiling board removal will not compromise the adjacent interior walls, which must remain intact as a barrier whenever the wallboards and/or ceiling boards are removed from the inner side of the containment.

If the Contractor's work would penetrate the adjacent room's wall or ceiling, the Contractor shall extend the dimensions of the Containment area to include the demolition of adjacent room and prep the adjacent rooms as a part of the project containment in order maintain negative pressure throughout the abatement process.

- 1. Assist as need, the Armory Personnel in the moving out from the work area all non-fixed items (e.g. desks, files, non-attached shelving, stored paperwork, etc.) identified by Facility Representative.
- 2. Establish required asbestos warning signs and regulated work area boundaries using asbestos warning tape at the entrances to the rooms that are undergoing the removal of the ACM. Establish GFI circuits, and a Central Decon for use throughout Prep as needed.
- 3. Setup GFI circuits panels and temporary lighting in the work area and adjacent locations to assist with prep work, inspections and air monitoring. Any connections to the buildings electrical circuits for the purpose of obtaining power for GFI circuits shall be performed at the contractor's expense using a State Licensed Electrical Contractor.
- 4. Once the Armory heating and air conditioning is turned off, begin to pre-clean all visible dust on surface inside the work area using HEPA vacuums.
- 5. Place critical barriers over the HVAC supply and return vents, windows and adjacent room doorways and hallways.
- 6. Prep the floor space and walls within the work area with two layers of 6-mil polyethylene to protect the floor and wall surface in the work area.
- 7. Mark all fire exit routes with red arrow or signage type markings with the arrows showing path of egress.
- 8. Cover any fixed items (lights fixtures, fire extinguisher cabinets, etc.) in a sheet of 6-mil polyethylene per ODOL requirements.
- 9. Set-up an attached load-out chamber area and an attached decon and connect to the water supply and wastewater drain at a location approved by the Owner's Representative.
- 10. Provide adequate negative pressure HEPA Filter exhaust machines to establish a negative pressure of -0.02" water pressure in the work area and provide a continuously recording negative pressure monitor. Mark the tape each day at the start and end of each work shift with the time and date.
- 11. When prep is completed call for an ODOL prep inspection.

### VII. ABATEMENT PROCEDURES

<u>Phasing</u>: The phasing of asbestos removal work shall be indicated on Contractor's initial ODOL notification for scheduling purposes. The Friable Asbestos Removal for this Project is to be conducted in one phase. The First Phase will consist of the removal of wall and ceiling board from all rooms of the

Armory. After friable ACM is abated, the Asbestos Abatement Contractor will schedule the non-friable ACM removal with the DEQ Representative.

A Modified Negative Pressure Containment: The Modified Negative Pressure Containment is required for the efforts to remove the wall and ceiling boards from Rooms 9, 10, 12, 24, 25, and 35.

The Modified Negative Pressure Containment is required to facilitate a safe removal of asbestos containing plaster used as a bedding or joint compound for each layer of gypsum ceiling board. The prep work to seal the area, install critical barriers and seal the work area containment shall in general follow the requirements of OAC 380:50-23-4 as summarized in the previous section of this Project Design.

Notice: The quantity for this Project's containment work exceeds 160 square feet. The Contractor must file a NESHAPS notice with DEQ Air Quality Division, which requires a 10-day notice prior to the start of asbestos removal activities.

During all phases of the work, the building's re-circulating heat and air system will be turned off, and the critical barriers are to be placed over all HVAC supply and return air grilles. These shall be routinely inspected and maintained in a sealed condition by the Licensed Abatement Contractor.

# A. Modified Negative Pressure Containment Work to Abate the Wall and Ceiling Board Plaster Material

Insure that the work areas are isolated from adjacent occupied areas and that all critical barriers are installed.

The Asbestos Abatement Contractor shall perform this abatement work in accordance with the requirements of ODOL regulations OAC 380:50-23-4, except that the decon and load out shall be centralized and a negative air machines shall be provided as specified in this Project Design.

- 1. Once the prep has been approved by the ODOL, the Asbestos Abatement Contractor can begin the ACM removal operations.
- 2. Each worker involved in removal shall perform a <u>careful and cautious</u> manner for the removal all wallboard and ceiling wallboard containing the ACM and prepare it for loadout as asbestos waste.
- 3. Initially wet each section of ceiling board and its beading tape and seam of plaster or joint compound with amended water using a low-pressure hand-held spray bottle or pressure sprayer.
- 4. Then dismantle the ceiling boards by cutting them into suitable size section that can be easily prepared for disposal in 6-mil asbestos waste disposal bags.
- 5. Collect and HEPA vacuum all residues and all dusts that are generated in the removal process for collection in the asbestos disposal bags.

- 6. Upon completion of the asbestos removal call for an initial visual inspection with the ODOL Inspector.
- 7. Once the gross removal and final cleaning work is completed, the Asbestos Abatement Contractor will call for an ODOL visual inspection.
- 8. Upon approval of the visual inspection, apply an EPA approved post abatement sealant as a "lockdown" onto all the surfaces throughout the containment.
- 9. Once the lockdown is dry schedule an ODOL inspection or follow the ODOL inspector's recommendation for the timing of clearance sampling.
- 10. Upon completion of successful clearance sampling and any addition required ODOL inspections, tear down the containment barriers and restore the area for occupancy.

# VIII. ENGINEERING CONTROLS

A. Asbestos Containing Ceiling Board Plaster, Bedding Tape and/or Joint Compound Removal.

The primary engineering control will consist of the use the negative pressure containment and HEPA vacuums and wet methods to wet and abate the ACM while working with the negative pressure containment.

The HEPA Filtered Negative Air Equipment shall maintain a -0.02 inches of water pressure for the abatement of all asbestos containing materials. Based on the area involved (~3000 ft³) two negative air filtration units are recommended for use to supply at least (4) air exchanges per hour and a minimum of -0.02 inches of negative pressure to the work area. However, a total of six (6) may be needed onsite in order to provide one for use in each room during that room's abatement. Individual negative air machines may be moved around as needed to accomplish this with fewer negative air units so long as the -0.02 inches of negative pressure to the work area is maintained throughout the project.

The Asbestos Abatement Contractor shall have onsite at least one additional Negative Air Filtration Unit throughout the project for use in the event that one of the units supplied to the containment fails to operate properly during the course of the abatement work.

#### IX. WORKER PROTECTION

A. Respiratory Protection.

Full Face (FF-APR's) -

are to be worn by all personnel in the regulated areas during all prep work that has a potential to disturb ACM and during each work shift for the asbestos removal activities until final clearance levels have been met provided the fiber counts remain <0.5 f/cc UCL.

Full Face PAPR's -

Full Face PAPR's may be provided to employees who request them or who need to wear one on the basis of a physician's recommendation provided the fiber counts remain <0.5 f/cc UCL.

B. Work Clothing and Associated PPE.

Additional PPE will consist of disposable asbestos worker clothing, protective gloves, hard hats, steel toe rubber boots and disposable work gloves.

All disposable PPE not limited to respirator cartridges, asbestos work clothing, gloves and other disposable items will be disposed of as asbestos waste throughout all phases of work.

Re-use items will be decontaminated using wet methods and HEPA vacuums at the central decontamination unit before they are brought out of the work area (e.g. rubber boots, respirator face piece).

The Abatement Contractor shall have sufficient work clothing and associated PPE on-site so as to supply these items to the Project Designer's Representative and Air Monitoring Firm Representative as needed to assist them in their work.

Workers may need to use a "double suit" protocol whenever they egress from a work area room after conducting abatement work in order to walk to the central decon or loadout through an adjacent hallway.

### X. DECONTAMINATION AND WASTE LOAD-OUT

#### A. Decon and Loadout.

Workers will be provided a three-chamber centralized decontamination facility (Central Decon).

The central decon will be connected up with a HEPA filtered negative pressure device/machine, such as a low speed negative air machine attached to the dirty side of the central decon. The set-up will allow for the flow of clean air into the clean room and then allow for the air to exhaust through the HEPA filter device attached to the dirty side of the Decon.

This will allow the central decon to have a flow of clean air that is drawn into the clean room and exhausts out through the central decon's dirty room per ODOL requirements OAC 380:50-15-12 (7).

Due to limitations in space, the Licensed Asbestos Contractor shall have some flexibility in the placement of the decontamination facility and loadout.

Workers may need to use a "double suit" protocol whenever they egress from a work area room after conducting abatement work in order to walk to the central decon or loadout through an adjacent hallway.

A containment diagram is provided in the Appendix to the Project Design that give the approximate location for the decon, the loadout and the negative pressure exhaust equipment.

The Clean Room shall conform to the requirements of OAC 380:50-15-7 and 15-12(8) dealing with size and suitable shower water temperature. When space is limited, the Contractor may request a variance from the ODOL rule for the size and configuration of the centralized or attached decontamination facility.

### XI. AIR MONITORING AND CLEARANCE TESTING

Sampling Requirements.

### A. Background Samples

At least one background air sample will be collected in each of the rooms scheduled for abatement at the Armory prior to the start of any asbestos abatement.

# B. Personal Monitoring

# 1. During Preparation for Abatement

A minimum of 25% of the workers will be monitored during preparation of the containment work area if any prep work has the potential to disturb asbestos. Examples of tasks requiring air monitoring during prep work include such tasks as pre-cleaning contaminated fixed and non-fixed items, cleanup of loose ACM on floors or ceiling tiles, and putting up of any critical barriers within arms reach of exposed friable ACM (e.g. where ACM is significantly damaged or missing).

# 2. During Abatement in Negative Pressure Containments

A minimum of 25% of the workers will be monitored during the abatement activities for all negative pressure containments or modified containment abatement work efforts. Personal monitoring is required during these phases to assure adequate respirator protection factors are applied in respirator selection.

# 3. Excursion (30-minute sampling)

One or more 30-minute excursion sample will be collected during the removal of the asbestos that is representative work conducted for each work activity that may generate a potential for worker exposure in excess of the OSHA PEL for the 30 minute Excursion Limit of 1.0 f/cc as specified in 29 CFR 1926.1101.

The Contractor may use prior air monitoring for compliance with the requirement to collect an excursion sample whenever the representative sampling was conducted for work conducted in the previous 12 months as specified in 29 CFR 1926.1101(f)(2)(iii)(B). ODOL has no excursion limit requirement, therefore it the Contractor responsibility to see that appropriate excursion sampling is conducted by the Third Party Air Monitoring firm.

# C. Area Monitoring

The following area samples shall be collected inside the Armory during each work shift when asbestos removal activities are being conducted.

One inside work area sample should be placed in the vicinity of a work crew during each day of work inside the negative pressure containment.

One outside area sample shall be collected adjacent to the work area in the entrance to the Armory's abatement work area (e.g. hallway) and at the Building's Drill Floor Area.

One outside area sample will be collected outside the Clean Room for the Decon Facility for each shift that the Decon is in use.

One area sample will be collected outside the Loadout during the loading out of wastes.

#### D. Action Level

Fiber counts for outside area samples collected in adjacent spaces which exceed an actual fiber concentration of >0.01 fibers/cc, shall be cause to stop work and evaluate the need to change procedures and perform necessary cleanup. A representative set of such samples will be reanalyzed by the NIOSH 7402 TEM method to establish a confirmed level of asbestos fibers. If it is determined that a representative number of samples tested using the NIOSH 7402 procedure exceed the 0.01 fibers per cc then all the work will stop and ODOL will be notified before any work is allowed to continue. Those samples, which are B.D.L., due to insufficient sample volume or sampling time, will not be considered as exceeding this action level.

# E. Clearance Testing

Clearance testing containments or modified containments will consist of PCM samples collected for a minimum of 6 hours and 3000 liters. A minimum of one clearance sample shall be collected inside each room or Hallway of the Armory where asbestos removal activities have taken place.

The sampling duration can be proportionally reduced to 3 hours by doubling the number of pumps used as stated in DOL rules.

The Clearance Testing can be scheduled once a visual inspection has been approved by ODOL.

The Clearance Criteria will be 0.01-fibers/cc UCL. NIOSH 7402 TEM Analysis will be used to confirm asbestos levels if the PCM clearances exceed 0.01-fibers/cc UCL. If they exceed the criteria, the Licensed Asbestos Contractor will contact ODOL, reclean the work areas and schedule a re-test for clearance. This process will be repeated until the clearance criteria are met or as approved by ODOL.

Whenever the Armory is governed by an AHERA Asbestos Management Plan of a Local Educational Authority (LEA) for school activities grades K-12, the Asbestos Abatement Contractor's Third Party Air Monitoring Firm shall conduct the Clearance Testing using an AHERA protocol with Transmission Electron Microscopy (TEM) analysis by allowing for the collection of a total of 5 PCM samples per each response action location/phase of work for a minimum volume of 1200 liters (i.e. AHERA requirements).

# F. Laboratory Requirements

PCM Asbestos Fiber Analysis - Marshall Environmental Management, Inc.

All routine and periodic asbestos air monitoring, performed during this response action, will be performed by the Third Party Air Monitoring Firm hired by the Licensed Asbestos Abatement Contractor. The Third Party Air Monitoring Firm shall be identified on the ODOL and NESHAPS Notification Forms.

Notice: It is the Contractors Responsibility to include all costs for Third Party Air Monitoring in the DCS Bid Amount. The DEQ LPD is not responsible for providing any Third Party or other Air Monitoring as a part of any of the Scope of Work for the Project Awarded.

Air monitoring personnel will have an ODOL Asbestos Worker category and/or Asbestos Inspector Licenses where applicable. Air monitoring staff and lab analysts will have completed the NIOSH 582 equivalency course for sampling and analysis of airborne asbestos. The Lab or air monitoring firm shall be a participant in the AIHA Proficiency Analytical Testing Program (PAT) in accordance with ODOL requirements.

PLM – Bulk Asbestos Analysis - Marshall Environmental Management, Inc.

Bulk Asbestos samples will be analyzed in accordance with EPA methods. Bulk Asbestos analysis labs shall be a participant in the AIHA/RTI Bulk Asbestos Proficiency Analytical Testing Program (PAT) or NVLAP Lab.

TEM - Transmission Electron Microscopy Analysis - QUANTEM LABS, OKC

Transmission Electron Microscope (TEM) analysis of asbestos air samples, when PCM results exceed 0.01 f/cc UCL, or when AHERA Protocol Clearance sampling is conducted will be performed by Quantem Labs of Oklahoma City.

#### XII. LOAD-OUT AND DISPOSAL

Double-bagged asbestos waste will be brought from the egress area of the Central Decon/Loadout location to an exit location at the Armory. Waste generator labels will be placed on each bag. Then each bag will be transported by the workers to the prepared storage unit, waste trailer or roll-off bin. Worker personal air monitoring and one outside area air sample shall be performed during each loadout activity in the vicinity of the loadout.

Waste manifests will be used to track the quantity of waste to the disposal site on the NESHAPS Notice.

# XIII. SAFETY ISSUES, ELECTRICAL, FIRE AND EMERGENCY EGRESS

No work will be at performed without adequate lighting. The work area will be clearly illuminated by droplights, light stands, or equivalent lighting, if the ambient room light does not properly illuminate the work area through the polyethylene sheeting used for critical barriers over the windows.

All work will be performed using a buddy system.

All power to the area is to be supplied by the GFI power source.

All exit routes from the Armory building work areas will be clearly marked with a sign and red arrow designating the exit path. Emergency lights will be in place, where necessary, in all areas that are not properly illuminated so as to assist in the identification of the exit locations.

A minimum of three fire extinguishers will be on site during all phases of work. The fire extinguishers shall be a #10-A:B:C rated extinguisher.

A minimum of one fire extinguisher will be in the work area and one in each of the containment area prepared for the removal of the wallboard and ceiling board material.

A minimum of one fire extinguisher shall be place the in the clean room of the Decon facility.

# XIV. REQUESTS FOR VARIANCES

Request for variances must be submitted to both the Licensed Project Designer and ODOL Inspector.

A variance from starting the work in Type "C" supplied air is requested. The Contractor may start the initial shift of work in Powered Air Purifying Respirators (PAFP) and then down grade to full face APR's once a full shift of air monitoring

shows asbestos fiber counts are below <0.50 fibers/cc UCL. Alternatively, the Asbestos Abatement Contractor may submit to ODOL a request to start the containment work in full face APR's based on air monitoring records from previous projects where similar work practices maintained the fiber count exposure level below <0.50 fiber/cc UCL.

The Licensed Project Designer supports the variance request for starting the wallboard and ceiling board abatement work in full face APR's due to the low percentage of chrysotile asbestos in the materials to be abated.

No other variances were anticipated at the Pre-abatement Bid Conference.

# XV. REMOVAL OF ASBESTOS IN SOIL

This Project does not require the removal of any soils contaminated with ACM.

# XVI. SPECIAL MATERIALS OR METHODS

The Armory location selected for this asbestos abatement project is to be unoccupied during the asbestos removal work. No special materials or methods for accomplishing the removal are anticipated. Requests for the use of any special materials or methods shall be coordinated with the Licensed Project Designer and submitted as a Project Design Amendment for consideration by the ODOL.

# **APPENDIX**

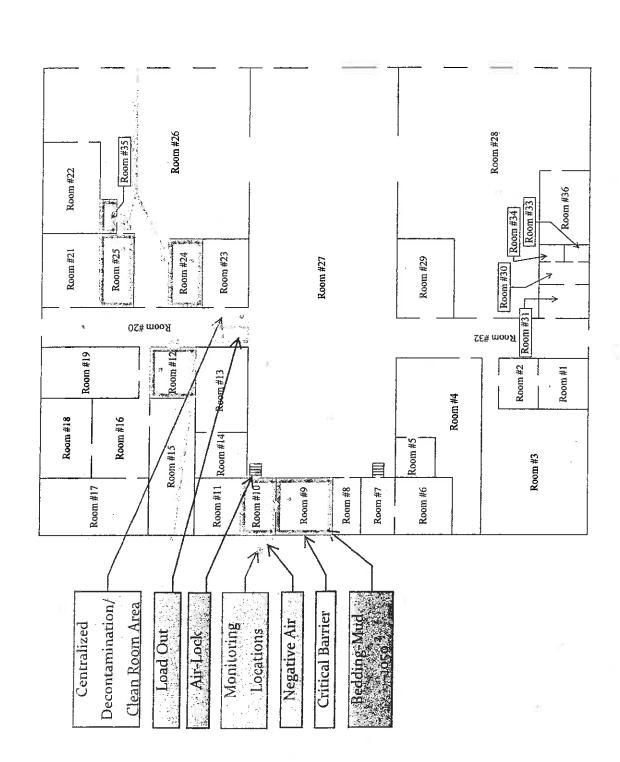
Armory Containment Area Diagram

Armory Estimated Quantities of ACM

Asbestos Inspection Report and Bulk Asbestos Test Results

Project Designer License

North



Perry Armory Project Design

# **Estimated Quantities of ACM**

Location	Material	Quantities	Total Quantities
Room-16	Floor Mastic	~310-ft²	
Room-17	Floor Mastic	~330-ft²	
Room-18	Floor Mastic	~160-ft²	~1050-ft²
Room-19	Floor Mastic	~100-ft²	
Room-34	Floor Mastic	~150-ft²	
Room-19	Gray 9"x9" Floor Tile	~100-ft²	22.02
Room-34	Tan/Beige 9"x9" Floor Tile	~150-ft²	~250-ft²
Room-9	Bedding-Mud	~1130-ft <sup>2</sup>	
Room-10	Bedding-Mud	$\sim 160$ -ft <sup>2</sup>	
Room-12	Bedding-Mud	~230- ft <sup>2</sup>	2 000 02
Room-24	Bedding-Mud	~450-ft2	~2,890-ft²
Room-25	Bedding-Mud	~570-ft2	. Y
Room-35	Bedding-Mud	~350- ft2	_

## STATEMENT OF WORK

#### For

# Remediation of Lead Contamination at Perry and Pawhuska Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at former National Guard armories located in Perry and Pawhuska, Oklahoma. This statement of work (SOW) describes the cleanup of lead contamination associated with the indoor firing range (IFR), and lead contaminated dust on the floors of the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. Sample results are attached for review (Attachment 1).

The Perry Armory building is located at 309 North 14<sup>th</sup> Street, Perry, Oklahoma 73077. The building does have available electricity but does not have available water to use during remediation.

The Pawhuska Armory building is located at <u>836 East 8<sup>th</sup> Street</u>, <u>Pawhuska</u>, <u>Oklahoma 74056</u>. The building <u>does not</u> have available electricity or water to use during remediation.

#### SPECIAL PROVISIONS:

- 1. Work Schedule: The Contractor shall schedule all work to be complete within forty five (45) calendar days after date of the written "Notice to Proceed".
  - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
  - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
  - a. All work shall be performed in accordance with all applicable State and Federal regulations.
  - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
  - c. Coordination of work areas shall be scheduled with DEQ.
  - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

#### CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through.
- Possess a current lead-based paint firm license and have a certified lead-based paint supervisor on staff in order to perform lead-based paint abatement.
- Read Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006, Departments of the Army and Air Force, National Guard Bureau (Attachment 4), and refer to this document as a reference and guideline for remediating IFR lead contamination.
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for indoor firing range remediation and lead dust remediation.

### Submit With Bid:

- Copy of lead-based paint firm license.
- · Copy of lead-based paint supervisor license.
- \* Three references with name, type of project, phone number, and location of similar work in the last three years.

### Submit After Contract Award:

• A Work Plan with planned activities and schedule to DEQ for approval.

# LEAD REMEDIATION INSTRUCTIONS

# Sequence of Events

The initial cleaning of the building shall be as follows:

- 1. First -
  - Any remaining debris inside the building determined by DEQ to be trash shall be properly disposed.
  - The indoor firing range (IFR) shall be cleaned (See Section 1. Indoor Firing Range (IFR) below for details).
- 2. Second -
  - All floors of the entire building shall be cleaned (See Section 2. Remaining Building for details).

# 1. Indoor Firing Range (IFR)

The IFR in these buildings is a long narrow basement room with attached small side room where the Oklahoma Military Department would target practice with weapons. Sometimes the IFR will have a steel bullet deflection plate and sand trap. The IFR is to be cleaned by removal of all lead contaminated materials, including debris (if present), sand (if present), steel plate (if present), lead-based paint (if present), and lead contaminated dust and other lead containing particulates on the floor, walls, and ceiling of the IFR.

# Pre-remediation Preparation

- O To ensure cross contamination does not occur, use engineering controls such as:
  - Sealing openings with 6 mil poly sheeting to contain dust inside IFR;
  - Covering floor of area outside IFR with 6 mil poly sheeting to make sure not to track lead dust into clean areas;
  - Securing IFR at the end of the work day. At no time shall the IFR be accessible for unauthorized entry without the contractor present;
- When inside IFR wear appropriate personal protective equipment (See Attachment 2).

# · Water Removal

All wash water from the IFR shall be filtered through a 1 micron filter and then sampled for total lead and total phosphorus. Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3. Wash water shall be disposed appropriately. Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility.

## Pre-remediation Removal

- O Decontaminate door to IFR side room, remove from frame, wrap in poly sheeting, and properly dispose;
- O Remove all paint from side room door frame to bare metal and paint frame with neutral colored primer;
- O Decontaminate all items to be removed from the IFR, wrap in poly sheeting, and properly dispose.
  - Items such as acoustical tiles, carpet, or other porous materials shall be HEPA vacuumed, washed, and sampled for TCLP. Acoustical tile, if present, will have 3 five part composite samples taken. All other materials shall have 1 five part composite sample taken of each material. If samples pass TCLP then properly dispose. If any samples fail TCLP, dispose of that item as hazardous waste.

# Remediation

- o HEPA vacuum and wet wash walls, floor, ceiling, vent fan, and other structures that are contaminated;
- o Dispose lead contaminated dust, wash water, and appropriate cleaning materials as hazardous waste or as appropriate (See section 3. Disposal of Materials for detailed information).

# • Post-remediation

- All post-remediation sampling shall be performed by Enercon Services, Inc.
  (ESI). The Contractor shall provide ESI a minimum of five (5) calendar days
  prior notice to perform sampling. See Section C (Confirmation and Clearance
  Sampling) for contact information;
- o Post remediation sampling is required to confirm the IFR has been remediated to 200 micrograms per square foot (ug/SF);
  - Areas above 200 ug/SF shall be re-cleaned and re-tested until results are at or below 200 ug/SF;
- o If surfaces of the IFR cannot be cleaned and DEQ determines that these surfaces contain imbedded lead fragments, construction grout shall be used over these surfaces.
  - Surfaces shall be thoroughly cleaned;
  - BASF Acryl 60 or DEQ approved equivalent shall be applied to surfaces according to manufacturer's specifications. Specifications are attached (Attachment 3);
  - BASF Construction Grout or DEQ approved equivalent shall be applied (sprayed or troweled) to surfaces according to manufacturer's specifications. Specifications are attached (Attachment 3).

- Once the IFR has been remediated to 200 ug/SF, seal the floor, ceiling, and walls with appropriate sealant;
  - Floor, ceiling, and walls will be sealed with KM-669 Acrylic Sealer or equivalent. Specifications attached (Attachment 3);
  - IFR area will have forced air applied to room 4 days after sealer is applied. This will be done to remove all vapors from the area;
- After surfaces are sealed, the Contractor shall provide ESI a minimum of five (5)
  calendar days prior notice to perform post remediation wipe sampling to confirm
  the IFR has been remediated to 40 ug/SF;
- Once cleaned, the area shall be retested to confirm area has been remediated to 40 ug/SF;
- All re-testing of previously failed areas shall be performed by ESI. Contractor shall provide ESI a minimum of five (5) calendar day's prior notice to perform sampling.
- O The chart below summarizes the clearance numbers for the indoor firing range.
  All lead wipe samples must be at or below these numbers in order for the room to be considered clean.

Post Remediation	Post Sealant
200 ug/SF	40 ug/SF

# 2. Remaining Building

# Lead Dust Remediation (See Attachment 1)

- O Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- o Floors of the entire building shall require lead dust remediation;
  - Remove dust from all equipment, shelving, trash, etc., and remove these items from room before remediation begins;
  - Remove dust from all carpet, remove carpet from rooms, and dispose
    of all carpet as non-hazardous waste before lead dust remediation of
    floor begins;
  - Dispose any materials, determined by the DEQ to be trash, as nonhazardous waste;

- HEPA vacuum and wet wash floors of entire building;
  - Lead levels on the floor are high in many areas of the building and lead contaminated dust may be ground into the pores and cracks of the concrete. It may be necessary to clean floors several times or use alternate cleaning methods after HEPA vacuuming and wet washing to remove the lead dust from the concrete and get the lead levels down to 40 micrograms per square foot (ug/SF).
- Contact Enercon Services, Inc. to perform independent third-party post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section C (Confirmation and Clearance Sampling) for additional information;
- Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
- Lead dust and appropriate cleaning materials shall be disposed as appropriate.
- Wash Water Disposal
  - All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers;
  - o The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
  - o Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility:
  - Wash water shall be disposed appropriately.

# 3. Disposal of Materials

#### Hazardous Waste

- Lead contaminated sand shall be disposed as hazardous waste;
- Lead contaminated dust from the cleaning of the IFR and remaining building shall be disposed as hazardous waste;
- Wash water filters shall be disposed as hazardous waste;
- Mop heads, towels, brushes, wipes, and other cleaning supplies shall be disposed as hazardous waste;

#### Other

- Poly Sheeting shall be disposed as appropriate. If contractor plans to dispose as non-hazardous waste, best management practices such as vacuuming, washing, wiping down, or cleaning poly sheeting prior to disposal shall be implemented.
- Personal protective equipment (gloves, tyvec, face masks, etc.) shall be disposed as appropriate.

# 4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from ESI.
- Enercon Services, Inc. (ESI) will be responsible for taking all post remediation samples.
- ESI shall be notified five (5) days prior to each sampling event.

• Contact Information:

Enercon Services, Inc.

6525 North Meridian, Suite 400 Oklahoma City, Oklahoma 73116

Contact: Bill Muenker Phone: (405) 722-7693

- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling done outside the indoor firing range will be performed after all initial abatement, remediation, and cleaning is complete.
- The chart below summarizes the clearance numbers for the building. All lead wipe samples shall be at or below these numbers in order for these areas to be considered clean.

IFR Post Remediation	IFR Post Sealant	Room Floors
200 ug/SF	40 ug/SF	40 ug/SF

## 5. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
  - o A detailed summary of work including any warranties and data;
  - o copy of post remediation sampling report;
  - o waste manifests (if any); and
  - o photo documentation of work;
    - Photo documentation of work will have color digital photos with captions describing photo;
- Final report will be submitted in hard copy and electronically on disc.

# **OWNER REPRESTATIVE**

Owner's Representative:

Dustin Davidson

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson

Oklahoma City, OK 73102

Phone Numbers:

(405) 702-5115 (Office) (405) 702-5101 (Fax)

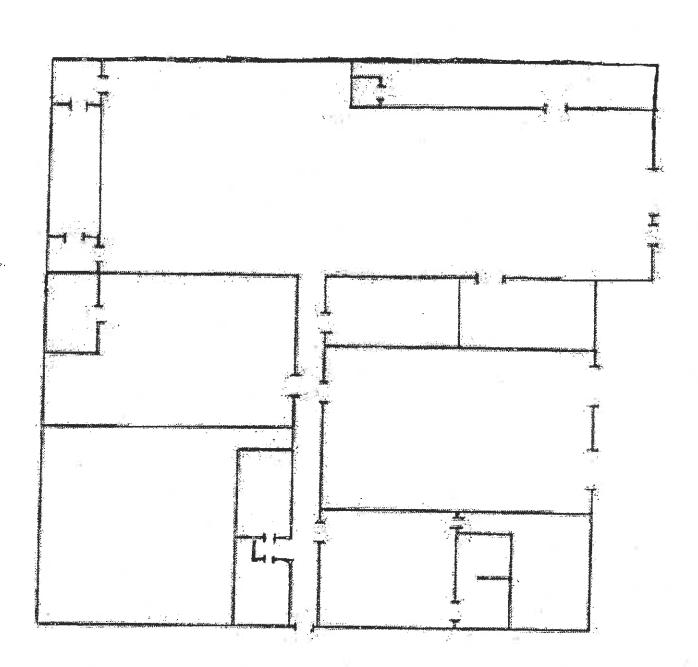
E-Mail: Dustin.Davidson@deq.ok.gov

# **ATTACHMENT 1**

Sample Results and Floor Plan

# PAWHUSKA ARMORY





# **ATTACHMENT 3**

# **Sealant and Encapsulant Specifications**

# KELLY-MOORE PAINTS INDUSTRIAL COATINGS HIGH PERFORMANCE SYSTEMS

# KM-669 Acrylic Sealer

THIS PRODUCT MAY NOT BE AVAILABLE IN SOME AREAS DUE TO VOC REGULATIONS

Contact your Kelly-Moore representative for more information

**Product Description** 

A one component, solvent borne, high gloss, clear acrylic sealer designed for use on concrete, masonry, and brick. Dustproofs concrete by penetrating surface pores leaving a tough, durable film.

#### Performance Features

- Non-Yellowing
- Excellent Adhesion to Concrete
- Good Water & Salt Chemical Resistance
- Good Abrasion Resistance
- · Can be Sprayed, Padded or Rolled

### **Product Specifications**

Resin Type	Acrylic
Color Range	Clear
Finish	High Gloss
Drying Time	8 hours to recoat
Practical Coverage	250-450 Sq. Ft. / Gallon
Recommended Dry Film Thickness	1.2 - 2.2 mils per coat
Solids By Volume	35%
Sizes	Five gallon pails
V.O.C.	560 Grams per liter
Clean Up	KM-S-74 or KM-SA-50

#### **Surface Preparation**

WARNINGI If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Surface Preparation:

Remove all dirt, grease, oil, soil, chemical contaminants, and other matter. Allow surface to dry.

Application Procedure:

When mixing, use an EXPLOSION PROOF SLOW SPEED DRILL WITH A JIFFY MIXER. Apply a uniform wet film, do not puddle material. Do not cover more area than can be worked in 10 minutes due to fast dry time. When spraying, use a low pressure machine. Two coats may be necessary depending on porosity or type of service.

For safety and product curing, proper ventilation is necessary throughout application and cure,

Dry Times: 8 hours

See Precautions and Limited Warranty next page

#### Precautions

KM-669 is Flammable. KM-669 contains flammable solvents. Keep away from all sources of ignition during mixing, application, and cure. In confined areas, provide adequate forced air ventilation. The use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream and protective clothing is a recommended standard practice when spraying coatings

Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

Limited Warranty: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

SEE MATERIAL SAFETY DATA SHEETS FOR FULL SAFETY PRECAUTIONS. KM-669 IS FOR PROFESSIONAL USE ONLY KM-669 IS FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHILDREN

#### MATERIAL SAFETY DATA SHEET

# For Coatings, Resins & Related Materials

Manufactured For:

Address:

Kelly-Moore Paints

987 Commercial Street

San Carlos, CA 94070

Prep Date:

07/28/06

Emergencies Involving Spills, Leaks, Fires, Exposure, Or Accident Contact

Chemtrec: 1-800-424-9300

Chemileo. 1-000-124-9300

Information Phone: 1-888-677-2468

Product Class: Acrylic Lacquer Sealer

Trade Name: KM-669 CLEAR H.M.(S. Codes: H F R P

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Ingredient	C.A.S.#	Weight Percent	Occupt. Exp OSHA PEL	oşure Limits ACGIH TLV	Vapor Pi mm Hg 8	ressure & Temp.F
Acrylic Resins	Mixture	30-40	Not	Established	Not Dete	mined
*Xylene	1330-20-7	40-50	100 ppm	100 ppm	5.1	68
*Ethyl Benzene	100-41-4	15-20	100 ppm	100 ppm	7.1	68

\*Indicates toxic chemical(s) subject to reporting requirements of Section 313 of Title III and of 40 CFR 372.

Boiling Range (Deg. F): 240°

Evaporation Rate: Slower than Ether

Percent Volatile By Volume: 70 ± 3%

Vapor Density: Heavier than air

Weight Per Gallon (lbs.): 7,75 ± .25

Flash Point (Deg. F): 80°

Lower Explosive Limit: 1.0

Extinguishing Media: Foam, alcohol foam, CO2, dry chemical, water spray

OSHA Flammability Classification: Flammable Liquid IC

Special Firefighting Procedures: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

# KM-669 CLEAR THIS PRODUCT IS FLAMMABLE Effects Of Overexposure: Eyes: Irritation, burning, tearing and redness. Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact. Ingestion: Abdominal pain, nausea, vomiting and diarrhea. Inhalation: Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea and loss of consciousness. **Emergency & First Aid Procedures:** Eyes: Flush with water for 15 minutes. Skin: Remove contaminated clothing, wash skin with soap and water. Ingestion: Do not induce vomiting. Get medical attention immediately. Inhalation: Move to fresh air, aid breathing if necessary. In all cases, consult a physician for best treatment. Chemical listed as carcinogen or potential carcinogen: NTP: No IARC: No OSHA: No Stability: Product Stable Conditions to Avoid: All sources of ignition Incompatibility (Materials to Avoid): Oxidizing agents, strong acids & bases Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides and organic compounds. Hazardous Polymerization: Will Not Occur Steps To Be Taken In Case Material Is Released Or Spilled: Dike spill area. Absorb spill with inert absorbent material. Place in sealed metal containers for proper disposal. Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Respiratory Protection: Use a NIOSH/MSHA jointly approved respirator

Ventilation: Use mechanical ventilation Protective Gloves: Neoprene or rubber Eye Protection: Chemical splash goggles

Other Protective Equipment: Protective clothing, barrier cream, eye bath, safety shower

Precautions To Be Taken in Handling & Storing; Store in dry area. Keep away from open flames and high temperatures.

Other Precautions: Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

State and Local Regulations

California Proposition 65 This product contains the following substances known to the State of California to cause cancer, birth

defects or other reproductive hazards: Benzene, Toluene.



PRODUCT DATA

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# ACRYL 60®

Water-based acrylic bonding and modifying admixture

#### Description

Acryl 60° is an acrylic-polymer emulsion mixed with Portland cement mortars, plasters, stucco, and concrete mixes to enhance their physical properties, adhesion to substrates, and durability

#### **Packaging**

1 quart (0.9 L) bottles 1 gallon (3.8 L) bottles 5 gallon (18.9 L) pails 30 gallon (113.5 l.) drums 55 gallon (208 L) drums

#### Cotor

Mifky white

#### **Shelf Life**

1 year when properly stored

#### Storage

Transport and store in unopened containers between 40 and 100° F (4 and 38° C). Protect from freezing.

#### **Features**

#### Significantly improves adhesion, cohesion, tensile Acrylic polymer compressive; and flexural strengths of cements based malanals of the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in the life in

Benefits

- Excellent chemical and UV resistance
- Improved freeze/thaw stability of Portland - cement-based materials and a second
- Stable

# Promotes long-fasting repairs

Suitable for cold climate applications ! 

Will not re-emulsify when exposed to water

#### Where to Use

#### APPLICATION

- · Cement-based mixes to improve their adhesion, and durability
- As gauging liquid for Thoro\* waterproofing and repair products, such as Thoroseal® and Thorite®
- Walkways
- Ramps and structural beams

#### LOCATION

- Interior or exterior
- Above or below grade

#### SUBSTRATE

Columns

# **How to Apply**

### Surface Preparation

- 1. The methods required for preparation will vary depending on the end product to be applied and the site and substrate conditions.
- 2. In all cases the surface must be clean and sound. Remove all loose and disintegrated material. Remove arry and all traces of oil, grease, dirt. dust, efficrescence, biological, mold or mildew, and release or curing agents.
- 3. Vacuum, sweep, or blow out the areas to be patched with clean, oil-free air.

#### CONCRETE/CMU/MASONRY SURFACES

Predampen the area to be patched or coated with potable water to a saturated surface-dry (SSD) condition. Do not leave standing water on surface. Proper surface preparation and cleaniness are extremely important.

#### OTHER SURFACES

For other surface preparation guidelines, refer to the specific Thoro\* product data guide for information.

#### Mixing

- 1. The normal ratio of Acryl 60° to clean potable water is 1 part Acryl 60° to 3 parts water (1 to 3). Where increased physical and chemical resistance are required, increase the Acryl 60° content in the mixing figuid to a 1 to 2 or 1 to 1 Acryl 60° to water ratio (see chart above).
- 2. Always mechanically mix. Do not overmix or mix at a high speed.



#### **Technical Data**

#### Composition

Acryl 60° is an acrylic-polymer emulsion.

#### Typical Properties

PROPERTY Density, Ibs/gal (kg/L), Lab Method	8.65 (1.04)
Solids content, by volume, %, Lab Method	28
Maximum water dilution, Pans Acryl 60° to H.O, Lab Method	1.3

#### Test Data

The following properties are for sand/cement mortar samples:

	With Water	With 1 to 1 Acryl 60° and Water	
Gompressive strength, psl (MPa) 28 days	3,800 (26.2)	4,500 (31)	ASTM C 109
Tensile strength, psi (MPa) 28 days	225 (1.5)	350 (2.4)	ASTM C 190
Flexural strength, psl (MPa) 28 days	1,000 (6.9)	1,800 (12.4)	ASTM C 348
Freeze/thaw durability	11 at 98 cycles	102 at 300 cycles	Method A

Test results are averages obtained under laboratory conditions at 70° F (21° C) and 50% iii. Reasonable variations can be expected:

#### Mixing Ratios

For scrub cuats applied before patching or overlays	Use straight Acryl 60*
To Improve the adhesion properties of pointing mortars and to reduce cracking in cornent plaster	Use 1 part Acryl 60" to 3 parts water
For large overlays or topping	Use 2 parts Acryl 60* le 1 part water
For bonding cement plaster no thicker than 1/4 - 3/8" (6 - 10 mm)	Use 1 part Acryl 60* to 3 parts water
NOTE. The above fallos are for normal conditions. Where bonding is more critical, in A TEST PATCH IS ALWAYS RECOMMENDED.	
For detailed application instructions for Thoro products, see specific product data si	herts.

#### Application

#### SAND/CEMENT MORTAR

- Thoroughly mix all cement and sand first. The sand must be clean, free of clay, and dry.
- 2. Make up mixing flouid from a 1 to 3 or 1 to 2. Acryl 60° water ratio depending upon requirements.
- 3. Slowly add the mixing liquid to the cement/sand mixture and mix with a slow-speed mixer for 1 2 minutes to avoid entrapping air. After preparing, cleaning, and predampening the surface, brush apply a scrub coat (not diluted) of the Acryl 60\*-modified cement/sand. Scrub vigorously into the surface to displace any air pockets.
- 4. Place the mix into the scrub-coated repair area white the scrub coat is stilf wet or tacky. Place the mix and avoid overtrowelling. The trowel should be cleaned frequently, kept wet, and used with minimal pressure.
- 5. Maximum time for placement should not exceed 20 minutes. Higher air and surface temperatures will decrease working and placement time.

#### Curing

- When rapid drying is expected due to high temperatures, rapid air movement, or wind, it is recommended that the surface be covered with wet burlap to retain moisture.
- 2. For normal use, allow a 24-hour curing period.
- 3. For heavy wheeled traffic, allow a 4-day curing period.

#### Clean Up

Clean all tools and equipment Immediately with water. Cured material may be removed by mechanical means only.

#### For Best Performance

- Do not use Acryl 60° modified mixes when the ambient air or surface temperature is below 40° F (4° C) or when the temperature is expected to fall below 40° F (4° C) within 24 hours. High relative humidity, excessive moisture, and low temperatures will retard the curing of Acryl 50° modified mixes.
- Up not use with air-entrained cement mixes or with air-entraining admixtures.
- Do not overmix or aerate mixes.
- · Use with proper ventilation,
- Do not use Acryl 60\* as a surface-applied external bonding agent or as a primer.
- Do not expose cement-based mixes modified with Acryl 60° to water immersion service for a minimum of 24 hours at 73° F (23° C).
- Not recommended for exposure to soft water or immersion where contact with water-treatment chemicals is present without a protective top coat.
- Caution should be used when a highly solvent material is being used over a base system that contains Acryl 60°.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personner are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

#### Health and Safety

ACRYL 60°

#### Caution

Acryl 60\* contains no hazardous ingredients as defined by 29 CFR 1910.1200 WHMIS.

#### Risks

May cause skin, eye er respiratory initation, Ingestion may cause initation.

#### Precautions

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

#### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes obysical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

#### Proposition 65

This product contains material listed by the state of California as known as to cause cancer, birth defects, or other reproductive harm.

#### **VOC Content**

1 g/L or 0.01 lbs/gal less water and exempt solvents.

For medical emergencies only, call Chemires (1-800-424-9300).

BASF Construction Chemicals, LLC -**Building Systems** 

839 Valley Park Drive Shakopee, MN, 55379

www.BuildingSystems.BASF.com Customer Service 800-433-9517

Technical Service 800-243-6739



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For professional use only. Not for sale to or use by the general public.

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# The Chemical Company

#### PRODUCT DATA



# CONSTRUCTION GROUT

General construction, mineral-aggregate nonshrink grout

#### Description

Construction Grout is a noncatalyzed, multi-purpose construction grout containing mineral aggregate.

#### Yleid

One 50 lb (22.7 kg) bag of Construction Grout mixed with 1.15 gallons (4.35 L) of water (flowable mix) provides approximately 0.45 ft<sup>3</sup> (0.013 m²) of mixed grout.

#### Packaging

50 lb (22.7 kg) multi-wall paper bags

#### Color

Concrete gray when cured

## Shelf Life

1 year when properly stored

#### Storage

Store in unopened bags under clean, dry conditions.

# **Features**

# Concrete gray color (after curing)

No organic accelerators, including chlorides or other salts

### Can be extended with clean well-graded: coarse aggregate 1

Herdens free of bleeding when properly placed

#### Benefits

Blands in with surrounding concrete.

Will not corrode reinforcing steel

Fills large voids without additional mix water

Provides high effective bearing area for proper support and load transfer

#### Where to Use

#### APPLICATION

- Normal loads for columns and baseplates
- Bedding grout for precast panels
- Recairing of cavities resulting from ineffective concrete consolidation
- Caulking concrete pipe
- Backfilling, underpinning foundations, and pressure grouting of slabs needing alignment
- General construction applications
- Damp pack applications

#### LOCATION

Interior or exterior

#### **How to Apply**

#### Application

For aggregate extension guidelines refer to Appendix MB-10: Guide to Cementilious Grouting,

#### Mixing

By using the minimum amount of water to provide the desired workability, maximum strength will be achieved. Whenever possible, mix the grout with a mechanical mixer. Either a mortar mixer or an electric drill with a paddle device is acceptable. Put the measured amount of water into the mixer, add grout, then mix till a uniform consistency is attained. Do not use water in an amount or a temperature that will cause bleeding or segregation.

#### Curing

Cure all exposed grout shoulders by well curing for 24 hours and by applying a recommended curing compound compliant with ASTM C 309 or preferably ASIM C 1315.

#### For Best Performance

- Contact your local representative for a pre-lob conference to plan the installation.
- Construction Grout is designed for the 50 to 90° F (10 to 32° C) application temperature range. Consult your BASF representative when applying outside this range. Use cold and not weather concreting practices (ACI 305 and ACI 306) when grouting within 10° F (6° C) of these minimum and maximum temperature ranges.
- To ensure optimum performance of Construction Grout, place at a plastic or flowable consistency and at ambient temperatures of 50° F (10° C)
- For best results, allow a minimum of 1" (25 mm) vertical clearance under baseplates when placing Construction Grout.
- Do not use Construction Grout where it will come in contact with steel designed for stresses above 80,000 psi (552 MPa). Use Masterflow 816, Masterflow\* 1205, or Masterflow\* 1341 posttensioning cable grouts.



#### Technical Data

#### Composition

Construction Grout is a noncatalyzed hydraulic cement-based grout containing mineral aggregate.

#### Compliances

- CRD C 621 and ASTM C 1107, Grade C, at flowable or plastic consistency
- City of Los Angeles Research Report Number RR 23137

#### Typical Properties

Final set, hrs, at 70° F (21° C)

Mixed Grout Data* (Flowable MI	
PROPERTY STATE OF	WUE
Approximate Water, gal (L)	1.15 (4.35)
Initial set, hrs. at 70° F (21° C)	6

"At a constant percent of water consistency with vary with temperature. Final set takes passe in approximately 8 hours at a lineable consistency and 70° F [247 C].

#### Test Data

Flow, %, 5 drops	126 -	145	ASTM C230
Volume change, %, flowable consistency, after 28 days	80.0		ASTM C 1090
Compressive strength, psi (MPa)			ASTM C 942, according to ASTM C 1107
	Flowable <sup>1</sup>	Consistency Plastic <sup>2</sup>	Stiff' (damp pack)
t day	1,500 (10)	- Marine	
3 days	5,000 (34.5)	6,000 (41.4)	8,000 (55.2)
7 days	6,000 (41.3)	7,000 (48.3)	9,500 (66.5)
28 days	7,000 (48.0)	8,500 (58.6)	10,000 (69.0)

<sup>1 140%</sup> flow on flow table, FSTM C 230, 5 drops in 3 securids

- Do not add plasticizers, accelerators, relaiders, or other additives unless advised in writing by BASF Technical Services.
- The surface to be grouted should be clean, strong, and roughered to CSP 5 – 9 according to ICRI Guideline D3732 to permit proper bond, For freshly placed concrete, consider using Liquid Surface Etchant (see Form Ng. 1020198).
- Do not place Construction Grout in lifts greater than 6" (152 mm) unless the product is extended with aggregate to dissipate hydration heat.
- Where precision alignment and severe service, such as heavy loading, rolling, or impact resistance are required, use metallic-reinforced, noncatalyzed Embeco\* 885 grout. If the amount of impact resistance needed is not great enough to require metallic reinforcement, use naturalaggregate, Masterhow\* 928.
- The water requirement may vary with mixing efficiency, temperature, and other variables,
- The concrete surfaces should be saturated (ponded) with clean water for 24 hours before grouting. Remove water immediately before application.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.

Proper application is the responsibility of the user.
 Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the lobsite.

#### Health and Safety

CONSTRUCTION GROUT

#### **WARNING!**

Construction Grout contains silica, crystalline quarts, portland coment; limestone; calcium oxide; gypsum; silica, amorphous.

#### **Řisks**

Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause imitation. Contains small amount of free respirable quartz which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged overexposure to free respirable quartz may cause sliicosis or other serious and delayed lung injury.

#### Precautions

Avoid contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

#### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If imitation persists, SEEK MEDICAL ATTENTION. Pernove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or it swallowed, SEEK IMMEDIATE MEDICAL. ATTENTION.

#### Waste Disposal Method

This product when discarded or disposed of is not listed as a hazardous waste in federal regulations. Dispose of in a landfill in accordance with local regulations. For additional information on personal protective equipment, first aid, and emergency procedures, refer to the product Material Safety Data Sheet (MSDS) on the job site or contact the company at the address or phone numbers given below.

#### Proposition 65

This product contains material fisted by the State of California as known to cause cancer, birth defects or other reproductive harm.

#### **VOC Content**

O g/L or O lbs/gal less water and exempt solvents.

For medical emergencies only, call ChemTrec (1-800-424-9300).

BASE Construction Chemicals, LLC - Building Systems

889 Valley Park Drive Shakopee, MN, 55379 www.BuildingSystems.8ASF.com

Customer Service 800-433-9517 Technical Service 800-243-6739



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<sup>\* 100%</sup> flow on flow table, ASTM C 230, 5 drops in 3 seconds

<sup>\* 40%</sup> flow on flow table, ASTM C 230, 5 times to 3 seconds

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

# **ATTACHMENT 4**

# **Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges**

#### Facilities Engineering

#### Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges

By Order of the Secretaries of the Army and the Air Force;

H STEVEN BLUM Licutenant General, USA Chief, National Guard Bureau

Official:

GEORGER. BROCK Chief, Plans and Policy Division

History. This printing publishes a revision of NG Pam (AR) 385-16/ANGPAM 91-101.

Summary. This pamphlet prescribes policy for rehabilitation and conversion of National Guard Indoor Firing Ranges (IFR).

Applicability. This guidance applies to all persons responsible for the operation of National Guard IFRs. As no regulation/guidance can foresee all situations that might arise, the following is written in a broad scope and is intended to be interpreted so as to ensure compliance with all applicable Federal and State laws and regulations.

Proponent and exception authority. The proponent of this regulation is Chief, NGB-SG-IH. The proponent has the authority to approve exceptions to this regulation that are consistent with controlling law and regulation.

Suggested Improvements. Users of this pamphlet are invited to sand comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 22202-3231.

Distribution, A.

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- 1-5. Goal
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#### Health and Medical Aspects

- 2-1. Health Effects
- 2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)
- 2-3. Air Monitoring

<sup>\*</sup> This publication supersedes NP Pam (AR) 385-16/ANGPAM 91-101, dated 31 January 1994.

- 2-4. Wipe Sampling Protocol and Media
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Glossary

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#### I-1. Purpose

This pamphlet establishes the policy and procedures for rehabilitation and conversion, of National Guard IFRs.

#### 1-2. References

Required and related publications and referenced and prescribed forms are listed in Appendix A.

#### 1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this publication are listed in the glossary.

#### 1-4. Policy and Procedures

Indoor firing ranges can be safely rehabilitated or converted for other uses, such as a storage area, classrooms or office space, provided the following -

a Prior to conversion active ranges must be thoroughly decontaminated and cleaned to acceptable levels. All ranges converted prior to the publication date of this pamphlet, must be inspected and evaluated to determine lead contamination. This will be accomplished by a certified National Guard Industrial Hygienist (IH) or a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.

b. The level of cleanliness is to be determined by sampling. The Occupational Safety and Health Administration's (OSHA) Technical Marnal, 5th Edition, provides guidance on the methods and techniques needed to collect wipe samples (Appendix B).

(1) Wipe samples must be collected and analyzed prior to and after cleaning.

(2) Post-cleaning surface wipe sample results must be less than 200 micrograms per square foot (ug/ft²) (40 micrograms in the case of child exposure). The sampling strategy, which is the amount and location of wipe samples to be collected, is provided in Appendix C.

c. Equipment/Items previously stored in the range must be decontaminated and cleaned to acceptable levels as determined by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSFIA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.

(1) Samples must be collected from equipment/items stored in the range. Sample selection is critical, because the number of items stored, length of storage, and level of contamination differs from range to range. The amount and location of the camples should be representative of the creas where lead dust is most likely to accumulate. The more samples collected, the better the statistical comparison of the results.

(2) Samples must be collected from the smooth surfaces of the equipment/items, as much as possible Results of samples collected from a rough surface will be inaccurate due to the minimal surface contact of the media. Further, the likelihood of tearing the media filter is greater on rough surfaces.

(3) Samples should also be collected on items stored the longest period of time, and which have not been disturbed. Items stored closest to the bullet trap and firing line are likely to have higher concentrations of lead dust.

#### 1.5. Goal

To ensure that every IFR is free of lead dust which means to test less than 200 micrograms and to reduce the number of unsafe National Guard IFRs.

#### 1-6. Deviation

Deviations from this guidance will require a written exception to policy from your Regional Industrial Hygiene Office. Questions and/or comments regarding this subject should be directed to your Regional Industrial Hygiene Office or Chief, National Guard Bureau, Office of the Joint Surgeon, ATTN: NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 22202-3231.

#### Chapter 2

Health and Medical Aspects

#### 2-1. Health Effects

29 Code of Federal Regulations (CFR) 1910 1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible, and common in the environment. Lead can enter the body by inhalation (breathing) or

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ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)

a. Per 29 CFR 1910.1025 (j)(i-ii), Medical Surveillance - General, "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."

b. The DOD 6055.5-M, Occupational Medical Surveillance Manual - Table 2-1 lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

2-3. Air Monitoring

Worker breathing zone air samples must be collected to ensure that personnal are not overexposed to airborne lead during the cleanup phase. Daily air samples will be collected from all personnel involved in the cleanup operation. These exposure levels will be used to evaluate work practices and medical surveillance requirements.

2-4. Wipe Sampling Protocol and Media

A template measuring 10 centimeters by 10 centimeters square, approximately 4 inches square, should be used to accurately measure and mark the area before collecting wipe samples. Samples should be staggered to different areas of the range. A grid system should be utilized. Samples should not be collected all on one section of a wall, or end of the building. OSHA Technical Manual provides the necessary guidance on the technique needed to collect wipe samples (Appendix B). Only distilled or deionized water will be used to saturate dry sample media. At least one field blank must be submitted with every 10 samples. The field blank must be from the same lot, and labeled as a blank.

2-5. Personal Protective Equipment

29 CFR 1910.1025 (f) (2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, filme, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f). As a minimum, personnel conducting the decontamination of the range will be provided with the following personal protective equipment.

a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work.

clothing and equipment such as, but not limited to:

(1) Protective coveralis with hood and shoe covers or disposable Tyvek TM full body suit.

(2) Disposable rubber gloves; and disposable shoe coveriets (If necessary).

(3) Full-face air purifying respirator with P-100 cartridges.

- b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs
- The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
- d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
- c. The employer will ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that scals sufficiently enough to prevent dispersion of lead dust

f The employer will further inform in writing any person who cleans or launders protective clothing or

equipment of the potentially harmful effects of exposure to lead.

g. The employer will ensure that the containers of contaminated protective clothing and equipment are labeled as follows: CAUTION CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

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Chapter 3

Education, Maintenance, Cleaning and Conversion

3-1. Worker Education

a. 29 CFR 1910.1025, Appendix B, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program will be repeated annually for personnel in range cleanup operations.

b. The commander/supervisor will ensure that each soldier or Army National Guard (ARNG) employee is

informed of the following:

(1) The content of the standard and its appendices.

(2) The specific nature of operations that could result in exposure to lead above the action level.

(3) The purpose, proper selection, fitting, use and limitations of respirators.

(4) The purpose and a description of medical surveillance program.

(5) Eating and drinking are prohibited in lead contaminated areas.

(6) Smoking and smoking materials will not be permitted in contaminated areas.

(7) Soldiers and ARNG employees must wash their hands and other exposed skin whenever they leave the work area.

(8) The engineering controls and work practices associated with the individual's job assignment.

(9) The contents of any compliance plan in effect.

(10) Instructions to soldiers and ARNG employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician:

3-2. Range Cleaning Instructions

Written procedures, such as a scope of work, or standing operating procedure that compiles with all Federal.

State and local regulations must be established prior to decontamination operations.

b. The range ventilation system will be in operation during range cleaning to ensure that a negative pressure environment is maintained. In the absence of mechanical ventilation system, all doors and windows will be sealed to eliminate funitive emissions.

c A High Efficiency Particulate Air (HEPA) filtered vacuum system, which is designed to collect loose surface lead dust particles, is the preferred method of cleanup. If a HEPA filtered vacuum is not available, the range can be cleaned using a wet method.

d. Prohibited methods include.

(1) Wet cleaning using high-pressure systems, since this method may embed the lead into the substratum and generate large quantities of hazardous waste.

(2) Dry sweeping is not permitted.

- e. All surface areas of the range must be cleaned. In addition, areas outside of the IFR where lead can be tracked must be cleaned.
- f. The preferred progression of cleaning is from top to bottom and from behind the steel bullet true to the firing line.
- (i) Clean the steel bullet trap, areas in front of and behind the bullet trap, and the steel bullet trap plate(s), after removing the sand (if applicable).
  - (2) Clean the ceiling, floors, lights, baffles, retrieval system, heating system(s), and ventilation duct(s).
  - (3) Vacuum and remove acoustical material. Painting over this material is not recommended.
     (4) Clean the floor the last, starting at the bullet trap and ending behind the firing line.

g. When using a HEPA filtered vacuum, vacuum all surface areas until no dust or residue is visible.

h. Any general purpose cleaning solutions can be used for the wet method. However, Spic and Span<sup>74</sup> has been found to be an effective cleaning solution by other Army organizations. Mix new solutions of cleaning solution frequently. Wet wiping will require dual containers of water, one container for wetting the applicator (mops, rags, sponge, etc.) and the other container for runsing the applicator after the dust has been wiped from the surfaces. After wet wiping all surfaces, permit the area to dry.

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i. Properly dispose of all hazardous waste. Do not place lead contaminated waste into the sewer system or onto the ground.

(1) When placed in containers, wastewater should be left to evaporate

(2) Mop-heads, sponges and rags will be discarded as hazardous waste following cleanup.

j. A thorough visual inspection to detect dust should be made following cleanup and prior to collecting post surface wipe samples.

 Wood floors should receive a coat of deck enamel or urethane; concrete floors should be sealed with deck enamel.

1. As a variety of conditions exist in ranges, unique situation may arise and specific written guidance from

your Regional Industrial Hygiene Office may be required.

m. Any cleaning activities must be under the supervision by a trained and competent personnel IAW with OSHA and other nationally, accepted standards and the work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).

3-3. Cleaning Stored Contaminated Equipment

a Equipment contaminated (sample result is higher than 200 ug/R²) with lead dust must be decontaminated

before it is removed from the range.

b. Equipment located near the bullet trap and firing line should be cleaned first and then removed. The cleaning method depends on the size of the equipment and the material it is comprised of i.e. metal, wood, concrete, porous, non-porous, smooth or rough finish etc. However, either HEPA vacuum or the wet wipe method will be used. Refer to paragraph 3-2 for additional guidance.

o. Every attempt should be made to clean and reclaim items since disposing of equipment, as hazardous waste is costly and wasteful. Only as a last resort will the item be discarded as hazardous waste. Porous items, such as office partitions and carpet that were present during firing should be considered grossly contaminated and be discarded unless analysis proves otherwise. Consult your State Environmental Office for the proper hazardous waste disposal methods.

3-4. Contaminated Sand and Lead Waste

Consult your State Environmental Office for specific disposal guidance to ensure compliance with local laws and regulations.

3-5. Range Rehabilitation

This chapter applies to all IFRs that have been identified as candidates for rehabilitation. It provides further guidance for cleaning and/or sampling that might be required prior to the start of rehabilitation.

a. The portion(s) of the range to under go rehabilitation must be sampled to determine the level of lead contamination. Wine samples will be taken per the established sampling protocol. See Appendix B.

b. All personnel involved in range rehabilitation will wear a NIOSH approved respirator (P-100) and proper personal protective equipment as prescribed in paragraph 2-5 above.

c. Prior to the start of rehabilitation, the environmental office must be notified to determine the disposition of

any debris containing hazardous materials (lead).

d. Supervision shall be by a person who is certified to perform inspections, evaluations, and determinations of IFRS IAW with OSHA standards, other nationally accepted standards, and accepted III practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer.

3-6. Conversion of Indoor Firing Ranges

Prior to the start of decontamination, employers must ensure that all procedures to be used comply with Federal, State, and local regulations. To ensure that all lead contamination is eradicated, the following procedure is established.

a. The State shall follow the project approval process as delineated in NGR 420-10 (or NGR 415-5 if the use of the military construction appropriation is required).

b. All ranges slated for conversion will be inspected and evaluated by the NGB Regional Industrial Hygiene
 Office.

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c. All equipment stored in the range, if applicable, prior to the start of decontamination must be sampled, decontaminated, re-sampled and removed or turned in as lead contaminated material.

d. All acoustical tiles and/or sound proofing material (if applicable) must be removed and turned in as lead

contaminated material through the environmental office.

c. The bullet trap, target retrieval system and firing line stations must be removed and turned in as lead containing material through the environmental office.

f. Light fixtures and ventilation system grills must be removed and decontaminated.

- g. Ventilation system ducts need to be decontaminated or removed and replaced.
- h. The exhaust fans and/or the complete ventilation air-handling unit (if applicable) must be decentaminated or removed to include roof fans.

i. Cover all openings of any component previously decontaminated prior to start of interior decontamination of

the firing range.

j. Prior to start of washing, the interior of the range should be vacuumed with a HEPA filtered vacuum. The range should be weshed using a cleaning solution of hot water and Spic and Span in five gallons of hot water. A progression of cleaning from top to bottom, and from back to front should be used. All surface areas of the range must be cleaned. Mix new solutions of water frequently. Washing will require dual containers of water, one container for wetting the applicators (mops, rags, sponges, etc.), and the other container for rinsing the applicators. Waste water placed into containers can be left to evaporate. Property dispose of all hazardous waste and do not place any lead contaminated waste into the sawer system or onto the ground. Mon heads, sponges and rags will be discarded as hazardous waste following decontamination of the range. After completion of decontamination, and prior to taking clearance samples, the ventilation system must be run for a period of 36 hours. Wipe clearance samples will be taken from ceiling, walls and flaors. The range will be considered clean if no clearance sample is greater than 200 ug/ft², if any sample is above 200 ug/ft², the range is not considered clean, the range will need to be re-washed until clearance samples are below 200 ug/ft².

k. The regional industrial hygienist will do quality assurance sampling as needed.

I After obtaining clearance, the walls of the range will be coated with a sealant (Not Paint), which is smooth, wood floors will receive a coat of deck ename! After sealing, floors will be tiled or covered with linoleum.

m. As a variety of conditions exist in ranges, unique situations may arise and specific written guidance from

the Regional Industrial Hygiene Office may be required.

n. All personnel involved in the decontamination/conversion of TFRs as a minimum will be provided with the following personal protective equipment.

(1). Full Face air purifying respiretor with HEFA carridges. The requirements outline in 29 CFR

1910.134, must be met prior to placing workers in respiratory protection.

(2). Individuals will be provided personal protective equipment as required per paragraph 2-5, this

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- o. Any conversion must be supervised by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less unportant than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).
- p. After conversion, lead testing shall continue on an annual basis to verify that no lead migration from the

substrate is occurring.

Appendix A

References

Section I

Required Publications

There are no entries in this section

Section II

Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34

The Respiratory Protection Program

AR 40-5

Preventive Medicine

DODI 6055.5

Industrial Hygiene and Occupational Health

DOD 6055.5-M

Occupational Medical Surveillance Manual

29 CFR, Part 1910

Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415.5

Army National Guard Military Construction Program Development and Execution

NGR 420-10

Construction and Facilities Management Office Operations

Technical Manual, 5th Edition

Occupational Safety and Health Administration, Department of Labor

Section III

Prescribed Forms

There are no entries in this section

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Section IV Referenced Forms

There are no entries in this section

#### Appendix B

Protocol for Collecting Wipe Samples

- B-1. If multiple samples are to be collected at the work site, prepare a rough sketch of the area(s) or room(s), which are to be wipe sampled.
- B-2. A new set of clean, impervious gloves should be used for each sample to avoid contamination of the media by previous samples and to prevent contact with the substance.

B-3. Wipe Samples

- a. If using Ghost Wipes<sup>TM</sup> tear open the individually sealed package. Remove the moistened wipe. Unfold the wipe.
- b. If using a dry media such as MCE or Whatman™ filter, moisten the filter with distilled or deionized water prior to sampling.
- B-4. Place a 10 centimeter by 10 centimeter template on the area to be wiped.
- B-5. Apply uniform firm pressure while wiping the area inside the template.
- B-6. To ensure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentric squares decreasing in size.
- B-7. After collecting a sample, fold the filter or wipe inward and place into a container and mun bir it. Note the number at the sample location on the sketch.
- B-8. At least one blank filter treated in the same fashion but without wiping, should be submitted to the laboratory

#### Appendix C

Sampling Strategy for Collection of Wipe Samples

- C-1. Prior to cleaning the ranges, three samples must be collected and analyzed for total lead dust on each surface, i.e., floor, ceiling, bullet trap, and wall to include the plenum wall, if applicable. In addition, a total of three samples should be collected from areas which have been least disturbed by airflow. Established walkways should be avoided.
- C-2. Samples should be collected from different areas of the range. A grid system should be utilized. Each range surface areas should be divided evenly into 3 by 3 sections. Samples should not be collected from only one section of a wall or end of the building.

#### Glossary

Section I Abbreviations

ARNG

Army National Guard

CFR

Code of Federal Regulations

HEPA

High Efficiency Particulate Air

TER

Indoor Firing Range

NIOSE

National Institute for Occupational Safety and Health

OSHA

Occupational Safety and Health Administration

ag/ft

Micrograms per square foot

#### Section II

Terms

Air monitoring

The sampling for and measuring of pollutants in the atmosphere.

Breathing zone

The imaginary globe of two feet radius surrounding the head.

#### General area

Collection of and later analysis of airborne contaminants in a given work environment. As the sampling pump and collection media are not attached to a worker, the concentrations found represent average concentrations in that area but may not representative of the actual exposure of the worker.

#### HEPA

Refers to high efficiency particulate air filter systems capable of capturing up to 99.97 percent of particles 0.3 microus in size or larger.

Lead-Contaminated Range

It is assumed that all IFRs, which have been fired in, are lead-contaminated.

Respirator

A device designed to provide the wearer with respiratory protection against inhalation of airborne contaminants.

Wipe Sample

The terms wipe, swipe, or smear samples are used synonymously to describe the techniques utilized for assessing lead surface contamination.

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Section III Special Abbreviations and Terms

This section contains no entries



# State of Oklahoma Department of Central Services Construction and Properties Division

This addendum forms a part of the contract document and modifies the original specifications as noted below. Please acknowledge receipt of this addendum in the space provided on the bid form. Fallure to do so may subject bidders to disqualification.

Date of Issue: May 3, 2010

Addendum Number: 01

DCS Project Number: 10276

Project Name: Perry and Pawhuska Armories Lead Paint Abatment

### TO ALL BIDDERS OF CONCERN:

Item #1: Attached (3) Three (8 % x 11) page of additional instructions / clarifications issued by DEQ to be added to the original contract bid documents.

ALL OTHER DOCUMENTS, SPECIFICATIONS AND DRAWINGS ARE TO REMAIN THE SAME AND INTACT.

Rebekah Richardson Contract Manager

Department of Central Services - CAP

# Perry & Pawhuska Armories Lead Paint Abatement Addenda #1 – Summary of Changes

#### Perry Armory -

- All interior and exterior window sills shall be cleaned. Once window sills are cleaned, interior and exterior window sills shall be painted with a primer and then encapsulated with a lead-based paint encapsulant. All loose and peeling paint shall be removed prior to priming and encapsulating.
- 2. Exterior window bars located on two windows shall be removed and properly disposed.
- 3. Exterior bars and exterior wood located on vent fan shall be removed and properly disposed. Wood around vent fan shall be wet scraped to remove loose and peeling paint, primed, and sealed with lead-based paint encapsulant. Metal lintel above vent fan and concrete sill below vent fan shall be wet scraped to remove loose and peeling paint, cleaned, primed, and then sealed with lead-based paint encapsulant.
- 4. The vault rooms (Room #5 and #14) shall have all walls and ceiling wet scraped, primed, and sealed with lead-based paint encapsulant.
- 5. The lead-based paint abatement of Room #13, Room #30, Room #31, Room #12, and Room #15 walls shall extend above drop ceiling to original ceiling. Drop ceiling and insulation may be moved to allow access to the walls in these areas.
- 6. All wainscoting on walls in Room #12 and Room #15 shall be removed prior to lead-based paint abatement.
- 7. All wallpaper in Room #30 and Room #31 shall be completely removed prior to lead-based paint abatement.

- 8. The paint on the floor of Room #4 and Room #5 shall be visibly removed. Once paint is visibly removed, floors shall be HEPA vacuumed, wet washed, and sealed with KM-669 Acrylic Sealer or equivalent.
- 9. The lead-based paint abatement of Room #27 (Drill Floor) walls shall not extend above drop ceiling.

#### Pawhuska Armory -

- All interior and exterior window sills shall be cleaned. Once window sills are cleaned, interior and exterior window sills shall be painted with a primer and then encapsulated with a lead-based paint encapsulant. All loose and peeling paint shall be removed prior to priming and encapsulating.
- 2. The Pawhuska armory <u>does not</u> have available electricity. Corrected page attached.

#### STATEMENT OF WORK

#### For

#### Remediation of Lead-Based Paint Contamination at Perry and Pawhuska Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at former National Guard armories located in Perry and Pawhuska, Oklahoma. This statement of work (SOW) describes the cleanup of lead-based paint located on surfaces throughout the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Perry and Pawhuska Armories is attached for review (Attachment 1).

The Perry Armory is located at 309 North 14<sup>th</sup> Street, Perry, Oklahoma 73077. The building does have available electricity and does not have available water to use during remediation.

The Pawhuska Armory is located at 823 East 8<sup>th</sup> Street, Pawhuska, Oklahoma 74056. The building does <u>Bot</u> have available electricity and <u>does not</u> have available water to use during remediation.

#### **SPECIAL PROVISIONS:**

- 1. Work Schedule: The Contractor shall schedule all work to be complete within ninety (90) calendar days after date of the written "Notice to Proceed".
  - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer and questions the contractor may have.
  - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
  - a. All work shall be performed in accordance with all applicable State and Federal regulations.
  - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
  - c. Coordination of work areas shall be scheduled with DEQ.
  - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

#### **CONTRACTOR SHALL:**

- Attend mandatory pre-bid meeting and site walk through;
- Posses a current lead-based paint license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;



## **DCS Construction & Properties**

**DATE:** 12/27/2010

TRANSMITTAL

No. CO#1

PROJECT: 10276

DEQ/Lead Remediation/Perry/Pawhuska

TO:

Department of Environmental Quality

REF: Change Order #1

DCS #10276

Crystal Creek Environmental

FAX:

ATTN:

Wendy Caperton

PHONE:

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
Shop Drawings	☐ Approval	M Approved as Submitted
Letter	Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	Returned After Loan
☑ Change Order	Review and Comment	□ Resubmit
□ Plans		☐ Submit
Samples Specifications	SENT VIA:	☐ Remmed
☐ Specifications	✓ Attached	Returned for Corrections
Other: Change Order	Separate Cover Via: Mail	Due Date:

ITEM NO. COPIES DATE

ITEM

NUMBER

REV. NO. DESCRIPTION

**STATUS** 

12/27/2011 CO

CO#1

Crystal Creek Environmental Solutio

APP

Remarks: DCS/CAP has approved Change Order #1 for DCS #10276 and is forwarding for your use.

DCS #10276 PO #2929012965

Net Increase: +\$1,280.91

PECETVED

CC: DCS/CAP, UA, Vendor

Signed:

Tiffany Lyon

Expedition Fernal [tr\_0] descap



## **Dept of Environmental Quality** OK DEPT OF ENVIRONMENTAL QUALITY SHIPPING & RECEIVING

707 N ROBINSON OKLAHOMA CITY OK 73102

#### Purchase Order

**CHANGE ORDER** Dispatch via Print Purchase Order Date Revision Page 2929012965 06/11/2010 1 - 12/20/2 **Payment Terms** Freight Terms Ship Via 0 Days Free on board at Cestination Common Buyer Phone Currency Tiffany MeBurnect (580) 405/522-0047
Ship To: OK DEPT OF ENVIRONMENTAL QUALITY USD

SHIPPING & RECEIVING 707 N ROBINSON

OKLAHOMA CITY OK 73102

Vendor: 0000237377 CRYSTAL CREEK ENVIRONMENTAL SOLUTIONS 1401 CORNELL PARKWAY BIII To:

OKLAHOMA CITY OK 73108-1811

OK DEPT OF ENVIRONMENTAL QUALITY

**ADMINISTRATIVE SERVICES** 

PO BOX 1677 OKLAHOMA CITY OK 73101-1677

Tax Exempt? N Tax Exempt ID: Line-Sch Item Id Description Quantity UOM PO Price Extended Amt Due Date

1- 1 096131

Environmental Remediation Services. Furnish All Labor, Materials & Equipment Necessary.

1.0000 SUM

107.735.9100

107,735.91 06/11/2010

BIDDING FOR LEAD REMEDIATION SERVICES FOR PERRY AND PAWHUSKA ARMORIES THROUGH THE DEPARTMENT OF CENTRAL SERVICES

VENDOR AND PRICE TO BE DETERMINED BY DCS

**Total PO Amount** 

137,735.91

COMMENTS: DCS #10276 Rebekah Richardson-Project Manager 405-522-0050

FY 2010

PROJECT: SITE CLEANUP ASSISTANCE PROGRAM

PERRY AND PAWHUSKA ARMORIES LEAD-BASED PAINT REMEDIATION BIDDING

JUSTIFICATION: UNDER THE SITE CLEANUP ASSISTANCE PROGRAM THE DEQ WILL HIRE A LICENSED PROFESSIONAL TO ABATE LEAD-BASED PAINT AND REPLACE DOORS CONTAINING LEAD-BASED PAINT IN PERRY AND PAWHUSKA ARMORIES.

(FOR AGENCY USE ONLY)

CONTACT: KAREN RUMSEY/ASD/(405)702-1168

MARY JOHNSON/LPD/(405)702-5100

DEQ IS AN EQUAL OPPORTUNITY EMPLOYER.

FUNDING: 493

REQUISITION #2920002978 - PLEASE RETURN PO TO MARY JOHNSON

3/17/10

CO#01 - 12/20/18 - A dear and frame were missed for replacement for LBP abatement and replacement in room 18 of the Perry Armory. This is an heater closel. CONTRACT SUM INCREASED \$1,280.91;CONTRACT TIME REMAINS UNCHANGED -TW

Authorized Signature



18 7913



Change Order timent of Gentral Services Construction & Properties

IMPORTANT NOTE: THE WORK DESCRIBED HEREIN IS NOT AUTHORIZED UNTIL THIS CHANGE ORDER IS COMPLETED AND SIGNED BY ALL ENTITIES LISTED BELOW. DO NOT PROCEED WITH WORK UNTIL THE CHANGE ORDER IS COMPLETED AND SIGNED BY EACH PARTY. This form is required and shall be prepared by the Contractor. All costs must be broken down. DATE: 11/14/10 P. O. NUMBER: 292901**3570** A 165-DCS/CAP PROJECT NUMBER: FROM PROPOSAL REQUEST NUMBER(S): 11042 CONTRACT NUMBER: PROJECT NAME: Perry and Pawhuska Lead Paint Remediatio DCS/CAP PROJ. MANAGER: CONTRACTOR: Crystal Creek Environmental Solutions Inc. CHANGE ORDER NUMBER: **BRIEF DESCRIPTION OF CHANGE:** A Door and frame were missed for replacement for LBP abatement and replacement in room 18 of the Perry Armory. This is a heater closet. BRIEF DESCRIPTION OF TIME DELAY: No time delay. Not valid until signed by the Contractor, Consultant, Using Agency and Authorized CAP Representative. 106,455.00 0.00 The 🖾 Contract Sum 🖂 Guaranteed Maximum Price prior to this Change Order was . 🚐 📮 🖂 🖂 106,455.00 The ☐ Contract Sum ☐ Guaranteed Maximum Price will be ☒ increased ☐ decreased ☐ unchanged by this Change Order in the amount of 1,280.91 □ Contract Sum ☐ Guaranteed Maximum Price including this Change Order will be 107,735.01 The Contract Time will be D increased The date of Substantial Completion as of the date of this Change Order therefore is 11/14/10 Date APPROVALS: Mike Jenkinson, President, Crystal Greek Contractor Name Signature Consultant Nema Signature ionalure GL Unit: Fund Type: Class Fund: (Dent of 6 Res



## Cost Breakdown For Change Order (Not Required If Change Is Less Than \$10,000)

(1) Materials	Unit	Unit Cost	Total
Door and Frame	1	691.42	691.42
Hardware	1	93.33	93.33
			0.00
			0.00
			0.00
			0.00
		Subtotal (1)	784.75

(2) Labor	No. Of Hours	Hourly Cost	Total
Labor to strip LBP from old door frame	1	136.00	136.00
Labor to install door and frame	1	302.25	302.25
			0.00
			0.00
			0.00
			0.00
		Subtotal (2)	438.25

(3) Equipment	No. Of Hours	Hourly Cost	Total
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
		Subtotal (3)	0.00

(4) Sub Contractors (List each Sub Contractor)	Total
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Subtotal (4)	0.00

Column 1		Column 2		
Insurance Cost	W mi a remande i antu- , s	Overhead Custs (15% Maximum of 1,2 & 3)	0.00	
Bond Cost	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Profit (10% Maximum of 1,2 & 3)	0.00	
Social Security Taxes (FICA)	<ul> <li>M. Madiffers are man map supposed that work frameworks</li> </ul>	Overhead Costs & Profit (Total limited to 15% of 4)	0.00	
Other Taxes	57.91	Total of Column 2	60 0	
Worker's Compensation	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Total of Column 1	57.91	
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Total of Column 1	57.91	Total for this Page (Subtotals 1 - 4, and Col. 1 & 2 Totals)	\$1,280.91	



#### **Explanation For Change Order**

REQUESTED BY: Contractor ⊠ Consultant ☐ Using Agency ☐ Owner (DCS/CAP)
REASON FOR CHANGE: (check box) Detailed explanation required below.
☐ Work not specified in Contract Documents, but essential to completion of the
☐ Scope change: Using Agency request. project.
☐ Scope change: DCS/CAP request. ☐ Other: (Describe)
Provide a detailed description of the proposed change in the Work and provide detailed reasons why this change is necessary.
DETAILED REASON FOR CHANGE IN THE WORK:  A Door and frame were missed for replacement for LBP abatement and replacement in room 18 of the Perry Armory. This is a heater closet. Picture Attached.
CONTRACT TIME REQUEST EXPLANATION:
Describe how the time requested will extend the "critical path" of the project schedule and will not be concurrent with other work.
No time delay.
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#### STATEMENT OF WORK

For

#### Remediation of Lead-Based Paint Contamination at Perry and Pawhuska Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at former National Guard armories located in Perry and Pawhuska, Oklahoma. This statement of work (SOW) describes the cleanup of lead-based paint located on surfaces throughout the building. This work must be performed to provide for safe reuse of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Perry and Pawhuska Armories is attached for review (Attachment 1).

The Perry Armory is located at <u>309 North 14<sup>th</sup> Street</u>, <u>Perry</u>, <u>Oklahoma 73077</u>. The building <u>does</u> have available electricity and <u>does not</u> have available water to use during remediation.

The Pawhuska Armory is located at <u>823 East 8<sup>th</sup> Street, Pawhuska, Oklahoma 74056</u>. The building <u>does</u> have available electricity and <u>does not</u> have available water to use during remediation.

#### **SPECIAL PROVISIONS:**

- 1. Work Schedule: The Contractor shall schedule all work to be complete within ninety (90) calendar days after date of the written "Notice to Proceed".
  - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer and questions the contractor may have.
  - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
  - a. All work shall be performed in accordance with all applicable State and Federal regulations.
  - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
  - c. Coordination of work areas shall be scheduled with DEO.
  - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

#### **CONTRACTOR SHALL:**

- Attend mandatory pre-bid meeting and site walk through;
- Posses a current lead-based paint license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;

#### Submit With Bid:

- · Copy of lead-based paint license;
- Three references with name, type of project, phone number, and location of similar work in the last three years;

#### **Submit After Contract Award:**

A Work Plan with planned activities and schedule to DEQ for approval;

#### LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

#### 1. LEAD-BASED PAINT ABATEMENT

#### A. Non-Friction and Non-Impact Surfaces

#### Perry Amory

- O All down spouts, all window lintels, all wood overhead doors, the walls of room numbers 4, 12, 13, 15, 27, 30, 31, 33, and 34, the concrete doorway overhang above both exterior side doors, the white concrete ledge below mural in drill floor, and all overhead door frames and guards shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (Attachment 3). Encapsulant shall be a minimum of 20 mils thick. Floor plan map is attached (Attachment 1). For a detailed list of lead-based paint locations see the Perry Armory Lead-Based Paint and Settled Dust Sampling Report (Attachment 5);
- o The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- o Deteriorated paint removed from building surface shall be properly disposed.

#### Pawhuska Armory

- o All down spouts, all window lintels, all wood overhead doors, the walls of room number 17, and all overhead door frames and guards shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (Attachment 3). Encapsulant shall be a minimum of 20 mils thick. Floor plan map is attached (Attachment 1). For a detailed list of lead-based paint locations see the Pawhuska Armory Lead-Based Paint and Settled Dust Sampling Report (Attachment 5);
- The yellow paint on the floor of room 10 and the grey paint on the floor of room 15 shall be visibly removed. Once paint is visibly removed, floors shall be HEPA vacuumed, wet washed, and sealed with KM-669 Acrylic Sealer or equivalent;
- o The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- o Deteriorated paint removed from building surface shall be properly disposed.

#### B. Friction and Impact Surfaces

#### **Doors and Frames**

- Pawhuska Armory and Perry Armory Door-Scope of Works with maps, door measurements, and specific details on abatement requirements for each door are attached (Attachment 4);
- o All removed doors shall be wrapped in 6 mil poly sheeting and properly disposed;
- o All door frames shall have all paint removed and frame shall be painted with neutral colored primer;
- Doors shall be replaced with pre-hung Steelcraft Commercial Replacement Door Units (Specifications Attached) or equivalent;
- o Doors shall be replaced with UL listed 90 minute standard metal doors;
- Doors shall be replaced with Steelcraft L18 and L16 Series Honeycomb Doors (Specifications Attached) or equivalent;
- Contractor must submit product data for approval if different from doors or door frames in bid package;
- Replacement doors and frames must meet all compliance and fire rating requirements in the attached specifications;

#### **Exterior Doors**

- Exterior doors shall be replaced with galvannealed, 16 gage, honeycomb core insulated doors;
- Hinges: As manufactured by Hagar or approved equal Plain Bearing Standard Weight 1279 NRP, 4 ½ X 4 ½ (Specifications Attached);
- Threshold: As manufactured by National Guard Products or approved equal – 426E (Specifications Attached);
- Weather Strip: As manufactured by National Guard Products or approved equal – 160VA (Specifications Attached);
- Lever: As manufactured by Schlage or approved equal D Series "Rhodes", 626 finish, function ND60PD (Specification Attached);
- Keying: All doors to be keyed alike;
- Provide sealant per 07920 specification attached.

#### **Interior Doors**

- Interior doors shall be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
- Hinges: As manufactured by Hagar or approved equal Plain Bearing –
   Standard Weight 1279, 4 ½ X 4 ½ (Specification Attached);
- Knob: As manufactured by Schlage or approved equal A Series "Orbit",
   626 finish, function A10S (Specification Attached);
- Provide sealant (caulking) per 07920 specification attached.

#### C. Clearance Inspection

- Once lead-based paint has been removed from surfaces, DEQ will perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
- Once lead-based paint abatement is complete, contractor shall HEPA vacuum and wet wash surrounding areas where abatement has been performed. DEQ will perform a visual inspection to make sure abatement area has been cleaned appropriately.

#### D. Sampling and Disposal

- o DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed as hazardous waste.
  - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the Contractor's responsibility to characterize this waste under 40 CFR 262.11 and if they are determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
  - A completed and signed waste manifest and a Land Disposal Notification Form, and a Certificate of Disposal to demonstrate that the paint chips were properly disposed at a hazardous waste facility must be included in the Final Report.

#### 2. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
  - O A detailed summary of work including any warranties and data;
  - o sample results;
  - o waste manifests; and
  - o photo documentation of work;
    - Photo documentation of work will have color digital photos with captions describing photo;
    - Photos will show before and after photos of work completed.
- Final report will be submitted in hard copy and electronically on disc.

#### **OWNER REPRESTATIVE**

Owner's Representative:

**Dustin Davidson** 

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson

Oklahoma City, OK 73102 (405) 702-5115 (Office) (405) 702-5101 (Fax)

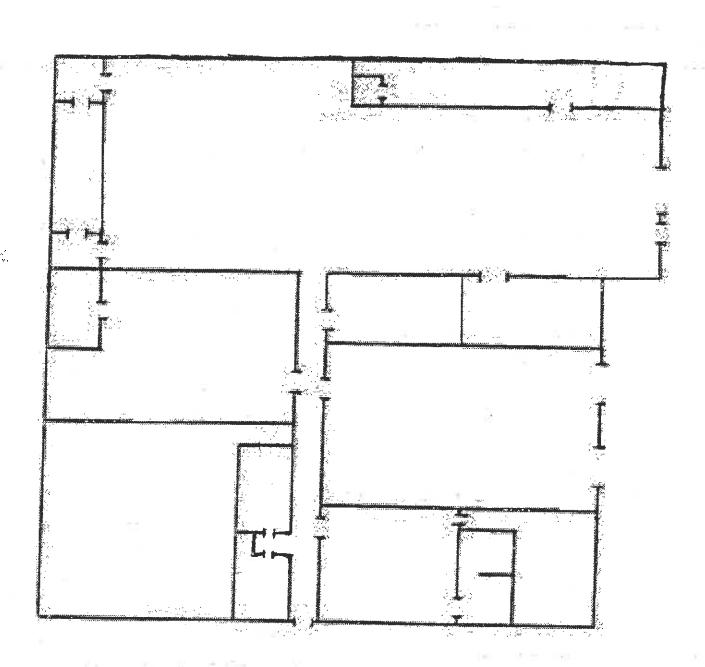
E-Mail: <u>Dustin.Davidson@deq.ok.gov</u>

## **ATTACHMENT 1**

Pawhuska Floor Plan Map
Perry Floor Plan Map

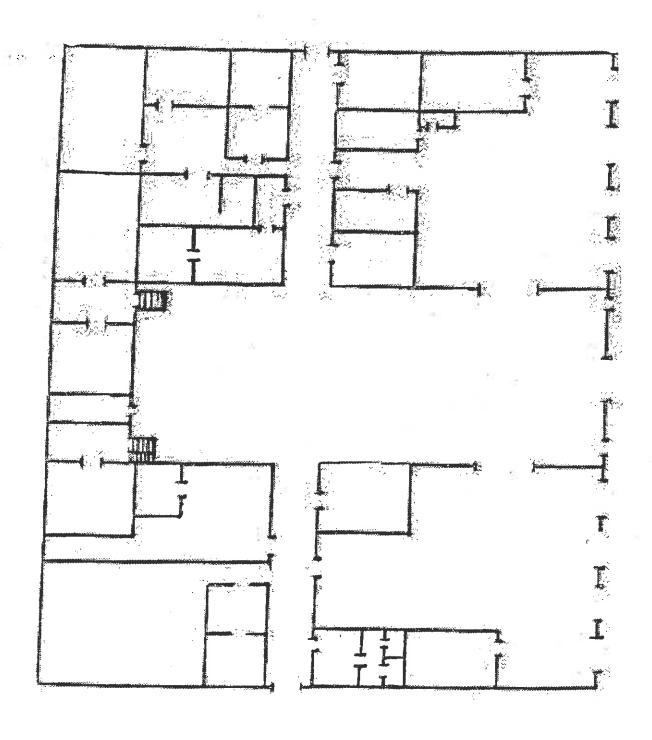
## PAWHUSKA ARMORY





## PERRY ARMORY





Indoor Firing Range
T

## **ATTACHMENT 2**

Health & Safety Aspects to Consider

#### Health & Safety Aspects to Consider

**Project Goal:** To ensure that former National Guard Armories are free of lead dust. Specifically, indoor firing ranges (IFR's) and other areas that contain lead contamination.

Please Note: the following information is from the Departments of the Army and the Air Force, National Guard Bureau, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (Attachment 4).

#### Health and Medical Aspects

#### Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible and common in the environment. Lead can enter the body by inhalation (breathing) or ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

#### Medical Surveillance for occupational Exposure to Lead

- a. 29 CFR 1910.1025(j)(i-ii), Medical Surveillance General: "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."
- b. The DOD 6055.5-M, Occupational Medical Surveillance Manual Table 2-I lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

#### **Personal Protective Equipment**

- 29 CFR 1910.1025(f)(2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134(b), (d), (e), and (f). As a minimum, personnel conducting the decontamination of the range shall be provided with the following personal protective equipment.
- a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:
  - (1) Protective coveralls with hood and shoe covers or disposable Tyvek TM full body suit.
  - (2) Disposable rubber gloves; and disposable shoe coverlets (If necessary).
  - (3) Full-face air purifying respirator with P-100 cartridges.
    - b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
    - c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
    - d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
    - e. The employer shall ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.
    - f. The employer shall further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
    - g. The employer shall ensure that the containers of contaminated protective clothing and equipment are labeled as follows: <u>CAUTION: CLOTHING</u>

      CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

#### Education, Maintenance, Cleaning and Conversion

#### Worker Education

- a. 29 CFR 1910.1025, Appendix 13, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program shall be repeated annually for personnel in range cleanup operations.
- b. The supervisor shall ensure that each individual employee is informed of the following:
  - (1) The content of the standard and its appendices.
  - (2) The specific nature of operations that could result in exposure to lead above the action level.
  - (3) The purpose, proper selection, fitting, use, and limitations of respirators.
  - (4) The purpose and a description of medical surveillance program.
  - (5) Eating and drinking are prohibited in lead contaminated areas.
  - (6) Smoking and smoking materials shall not be permitted in contaminated areas.
  - (7) Employees must wash their hands and other exposed skin whenever they leave the work area.
  - (8) The engineering controls and work practices associated with the individual's job assignment.
  - (9) The contents of any compliance plan in effect.
  - (10) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

#### REFERENCES

#### **Section 1 Required Publications**

There are no entries in this section

#### **Section II Related Publications**

#### ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

#### AR 11-34

The Respiratory Protection Program

#### AR 40-5

Preventive Medicine

#### **DODI 6055.5**

Industrial Hygiene and Occupational Health

#### DOD 6055.5-M

Occupational Medical Surveillance Manual

#### 29 CFR, Part 1910

Occupational Safety and Health Administration, Department of Labor

#### National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

#### NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

#### NGR 415-5

Army National Guard Military Construction Program Development and Execution

#### NGR 420-10

Construction and Facilities Management Office Operations

#### Technical Manual, 5<sup>th</sup> Edition

Occupational Safety and Health Administration, Department of Labor Section III

## **ATTACHMENT 3**

## **DEQ Approved Lead-Based Paint Encapsulants List**

## Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK <sup>TM</sup>
Dumond Chemicals	LEAD STOP <sup>™</sup>
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal <sup>™</sup> I
Encap Systems Corporation	EncapSeal™ II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	Lead <b>L</b> ock <sup>TM</sup>
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP <sup>TM</sup>
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

### **ATTACHMENT 4**

Pawhuska Door Scope of Work Including Measurements and Specifications

Perry Door Scope of Work Including Measurements and Specifications

# Pawhuska Armory Door Measurements And Scope of Work

- Door measurements are listed as approximate Width X Height; Contractor to field verify.
- All removed doors will be properly disposed.
- All removed lead-based paint will be properly disposed.
- Attached is a Pawhuska Armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.
- Specifications for replacement doors are attached.
  - 1. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
  - 2. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
  - 3. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
  - 4. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

    Door Measurements 3' X 7'
  - 5. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
  - Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements – 3' X 7'
  - 7. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
  - 8. Remove double doors. Remove all paint from door frame. Replace double doors with pre-hung door unit. Original frame will be painted with a neutral colored primer.

Double Door Measurements – 6' X 7'

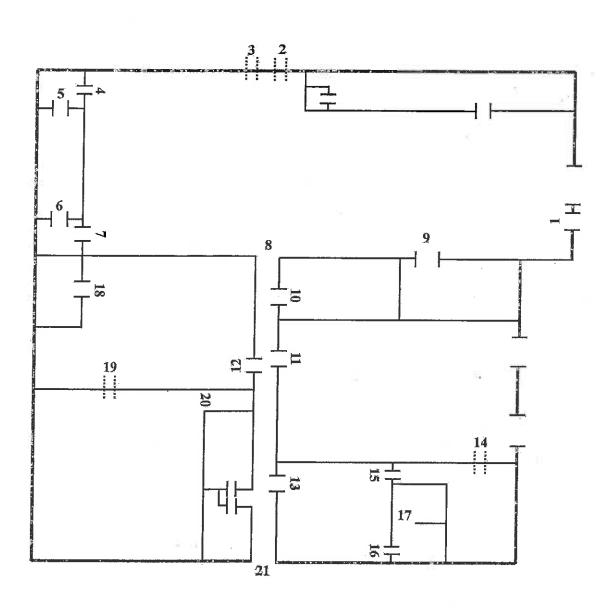
- 9. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 10. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 11. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 12. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 13. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 14. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 15. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'4" X 7'
- 16. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'4" X 7'
- 17. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 18. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
- 19. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'8" X 7'...
- 20. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

  Door Measurements 3' X 7'

21. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.

# Pawhuska Armory





# Perry Armory Door Measurements And Scope of Work

- Door measurements are listed as approximate Width X Height; Contractor to field verify.
- All removed doors will be properly disposed.
- All removed lead-based paint will be properly disposed.
- Attached is a Perry Armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.
- Specifications for replacement doors are attached.
  - 1. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
  - 2. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
  - 3. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
  - 4. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
  - 5. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

    Door Measurements 3' X 7'
  - 6. Remove door and frame. Do not replace.
  - 7. Remove door. Remove all paint from door frame. Frame will be painted with a neutral colored primer. Do not replace door.
  - 8. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
  - 9. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.

- 10. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 11. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 12. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 13. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 14. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 15. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 16. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 17. Remove double doors. Remove all paint from door frame. Replace double doors with pre-hung door unit. Original frame will be painted with a neutral colored primer.

  Double Door Measurements 5' X 7'
- 18. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'6" X 6'8"
- 19. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 20. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 6'11"
- 21. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 22. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.

- 23. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 24. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 25. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 26. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 27. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 28. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 29. Remove door frame. Do not replace.
- 30. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

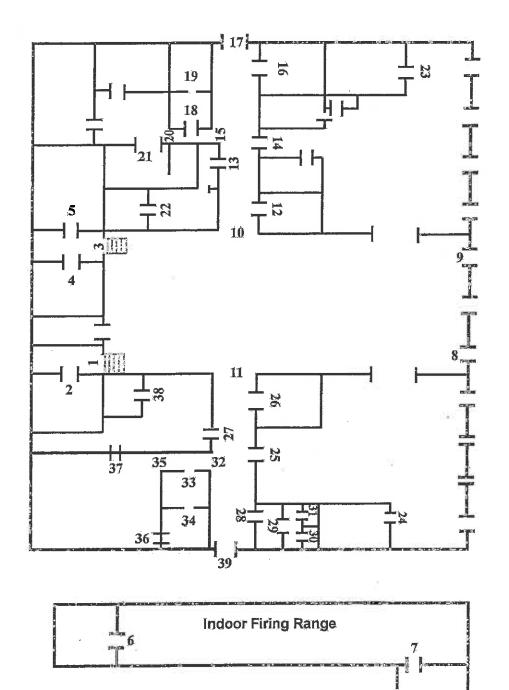
  Door Measurements 2'4" X 7'
- 31. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'4" X 7'
- 32. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 33. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'6" X 6'8"
- 34. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.

- 35. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 36. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 37. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'8" X 7'
- 38. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
- 39. Remove double doors. Remove all paint from door frame. Replace double doors with pre-hung door unit. Original frame will be painted with a neutral colored primer.

Double Door Measurements – 5' X 7'

# **Perry Armory**





1½ HR (B) LABEL non-listed or listed

Install a pre-hung

Steelcraft'

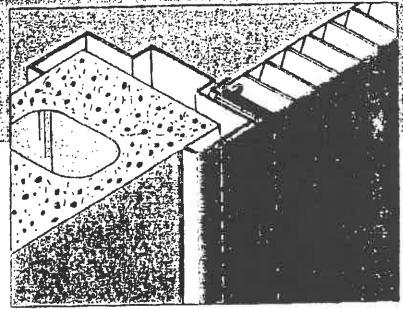
COMMERCIAL

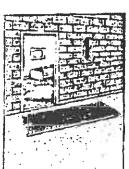
REPLACEMENT

New beauty and security for worn out doors.

The Steelcraft Commercial Replacement Unit is the only product of its kind specifically designed for the rehab market. Fits these nominal sizes: 2868, 3068, 3668, 3868, 4068, 2870, 3070, 3670, 3870, 4070 single, and 5468, 5068, 5470 and 6070 double doors.

- Does not require removal of existing frame.
- Fits an "out-of-square" opening.
- Works with grouted or-nongrouted frames.
- Installs quickly and easily.
- Includes rugged steel adapter frame
- Permits door swing to be changed without major rework.
- Fills opening without re-mortising and filling hardware cutouts.
- Can be installed in existing steel or wood trame.
- Provides additional security.





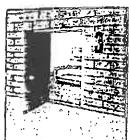
### QUICK .

1. Remove old door, hardware, silf and any other item(a) projecting into opening.



### 'N EASY

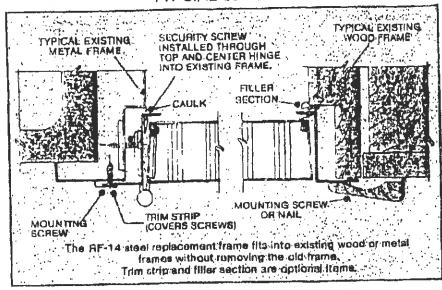
2. Set pre-hungualt into frame opening. Install mounting screws fireugh face, cut banding and install accurity screws.



### INSTALLATION

3. Mount nardware as required. Paint.

### TYPCIAL SECTION



### DESIGNS AND FINISHES AVA







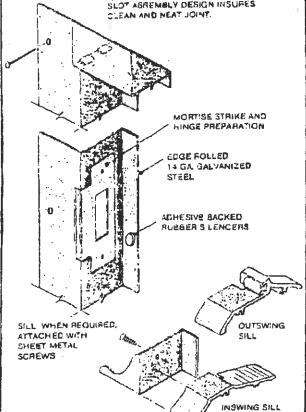




LOUVERS



KNOCKED DOWN CORNER CONSTRUCTION. FAST AND EASY TAB AND SLOT AGREMBLY DESIGN INSUFES CLEAN AND NEAT JOINT.



FRAME IS FURNISHED WITHOUT SILL AS STANDARD. AN OPTIONAL INSWING OR OUTSWING SILL IS AVAILABLE. WEATHERSTRIPPING ALSO IS AVAILABLE AS AN OPTION.

SPECIFICATIONS.

Commercial Replacement Unit shall be supplied as a completerunit, consisting of 18 ga. door (RL-18) and 14 ga. frame

Single openings shall be pre-hung, ready for quick and easy installation. Double openings shall be supplied as separate, units (frame and two door leaves) not pre-hung.

Doors shall conform to the following:

Doors shell be as menulactured by Steelcraft, Cincinnell, Ohio, and designated as RL-16 (1%" 18 ga. steel).

Doors shall be tabricated from cold rolled steel.

Doors shall have '%" beveirin 2" on hings and look edgas.

Doors ahali have vertical mechanical interlocking seams crohings and lock adgss with visible adgs spam;

Doors shall be provided with top and bottom inverted steel channels spotwelded within the door.

Doors shall be reinforced, attifened and sound deadened. with impragnated traffhoneycomb core completely filling the inside of the door and laminated to the inside faces of

Doors shall be morrised and adequately reinforced for all nargware.

Doors shall be phosphatized and receive one coat of baked-on prime paint

Frames shall conform to the following:

Frames shell be as manufactured by Steelcreit, Cincinnati, Onio, and designated as RF-14 (14 gal).

Frames shall be accurately formed from galvanized steel.

Frames shall be furnished knocked down (KD), Corners shall have tabs for secure and easy interlocking of jambs to head at each comer.

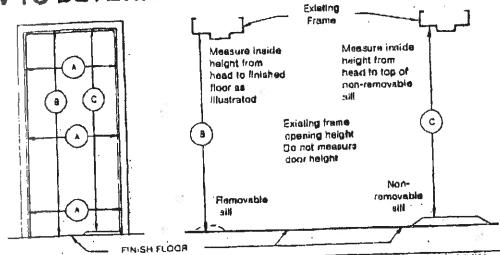
Frames shall he adequately reinforced for all hardware.

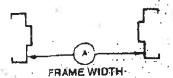
Frames shall be supplied with achosive backed nibber pumpers; three per strike jamb, two per double door frame

Frames shall be phosphatized and receive one cost of paked-on prime paint.

"Single openings are designed to be pre-hung and installed. Units are supplied KD for pre-hanging at job site or by distributor.

# HOW TO DETERMINE SIZE OF EXISTING FRAME





Menaure in 3 pieces. Use narrowest dimension for ordering

NOTE: ORDER UNITS BY NOMINAL SIZES. DO NOT ORDER BY ACTUAL DIMENSIONS.

	FITSTHESE EX	STING OPENINGS
SIZE	A: WIDTHS	B C HEIGHTS
(Nominal)	MIN. MAX	MINT MAK
2'8"-x-6'8".	31/57: 3237:12	3 ( - 5 )
3:0" x 6'8"	35%2 . 36%	the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
3:8":x-8'8"	41,16" 42,18%	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3/8".x 6/8"	4312 4416	
4'00' x 6'8"	47%" 48%"	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
2:8" x.7'fl."	3247	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
3:0" x 7'0"	35%" 36%"	
3/8" x 7/0"	41%	
38"x470"c	- 43% 44% A	
4'0" x 710"	47/8" 48%	
5'4" x 6'8"	83%" 84%"	
6'0" x 6'8":	7146" 72%	The second of the second of the
54" x.7'0";	6394	and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
6'0" x 7'0"	7.1%	83% 84%

MAN, OPENING HEIGHT MAY BE EXCEEDED BY BLOCKING DOWN EXISTING OPENING,

# TO HAND A DOOR — FACE IT FROM THE OUTSIDE OR KEYSIDE

LEFT HAND Hinges on Left Opens Inward



RIGHT HAND Hinges on Right Opens Inward



LEFT HAND REVERSE Hinges on Left Opens Dulwerd





LEFT HAND Hinges on tell Opens Inwerd



RIGHT HAND Hinges on Right Opens Inwers



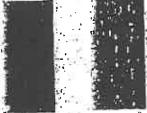
LEFT HAND F
REVERSE
Hinges on Left
Opens Outward



RIGHT HAND REVERSE Finges on Right Opens Dulward







FINISH PAINTED AND WOOD

### HARDWARE

Replacement Units shall be prepared for the following hardware:
Hinges:

Hinges: 1-1/2 pair of 4-1/2:x 4-1/2:x 134 template hinges

Lock and Strike::

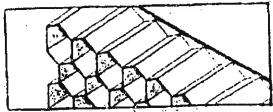
- Government 164 (ANSI-AT 15.2) cylind\*lcalerGovernment 86 (ANSI-AT 15.1) mortise lock with an ANSI-AT 15-1 or .2 strike

Consult distributor for other hardware preparations.

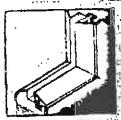
	<u> </u>	<u> </u>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,
	NOMINAL		E SIZE	NET DOOR SIZE	E•
1	f 1	(FINISHED	OPENING		LECUT
	SIZE	WIDTH	HEIGHT	7712	HEIGHT
	2868	31"		30-13/16°	! 1
i	3068	35"	] !	34-13/16"	
	3668	41"	79%	40-13/16"	75%"
1	3868	43"	) 1	42-13/16"	
T.	4068	47"	! _	46-13/16"	ļ
SINGLE	2870	31"	!	30-13/16"	82'4"
ŝ	3070	35"	83%"	34-13/16"	
	3670	4*"		40-13/16"	
	3870	43"		42-13/18"	
	1070	47"	1	46-13/18"	
	5468	63"	7000	30-13/16" & 31-13/16"	78%
Œ	6088 71" /974	1 /9%	34-13/16" & 35-13/16"		
PAIR		53"	T	30-13/16" & 31-13/16"	82%"
_	6070	/1"	83%"	34-13/16" 8 35-13/16"	1

FOR PAIRS OF DOORS INACTIVE LEAF IS 1"WIDER THAN ACTIVE LEAF CONSULT DISTRIBUTOR FOR OTHER SIZES.

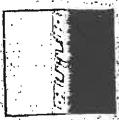
# DOOR DETAILS.



Full honeycomb core of phenolic realisimpregnated kraft haper reinforces the door every finich, providing superfative resistance to impact and essuring a fint surface.



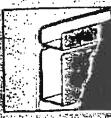
Aluminum glasır tılm (anınımını)



8-gage thick hingereinforcement.



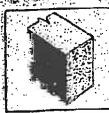
Snap-in stoel top capa (icrestarior openings)



Stadings and buttom reinforcing channels if 4 page closes rein Vorcementwhen required



Door bottom with , double sweep when required:



Insulated doors: une pound polystyrene; core, 1% cound polyurathana core when required.

### PAIRS OF DOORS



Designs shown may be combried for pairs of doors. Pairs of doors consist of two leaves and a 14 ga, stoet "Z" sattagal field mounted to inactive lest of pair, inactive, lest may be secured with flush bolts of auriace poits.

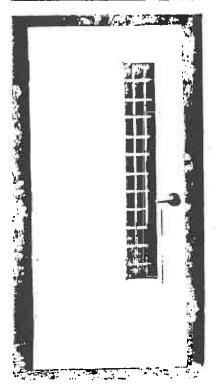
Note: For pairs of doors, right hand will be active, unless appelifically ordered.

# STEELCHAFL

# L18 AND L16-SERIES HONEYCOMB DOORS







### **ABOUT THE PRODUCT:**

The L18 and L16-Series Flush Doors are designed to meet the architectural requirements for full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

### FEATURES AND BENEFITS:

Steelcraft's L-Series Doors offer the following standard unique features, which enhance long term performance and durability.

- Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight.
- Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the door edges.
- Patented universal hinge preparations allow for easy fiel conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
- 14 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse.
- Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
- Recessed Dezigner™ glass trim provide a clean, neat, and flush finish with the door surface.
- Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

### SPECIFICATION COMPLIANCE:

- Door construction for the Steelcraft L18 and L16-Series Fu Flush Doors meet the requirements of ANSI A250.8-1998. (commonly referred to as SDI-100)
- Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

### FIRE RATINGS:

The L-Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing ASTM E152 and UL-10B and positive pressure standards UBC 7-2 and UL-10C)

Steel Thickness	Opening	Usage Frequency <sup>1</sup>	Frame Applications
16 gage (1.3mm)	Interior & Exterior	Extra-heavy duty	16 & 14 gage steel frames
18 gage (1mm)	Interior & Exterior	Heavy duty	(16 gage steel frames
Steel Type	Opening:	Building Applic	ations
Non Galvannealed <sup>3</sup>	Mainly Interior	Typical building conditions	
Galvannealed <sup>2</sup>	Mainly Exterior	Used in local	ations with high humidity and/or weather exposure

### MATERIAL:

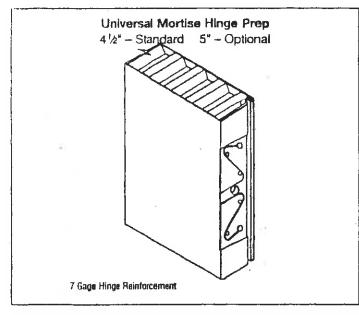
Depending on environmental conditions, exterior doors are generally galvannealed and interior doors non galvanneal. All doors are supplied with a factory applied baked on primer for field applied finish paints.

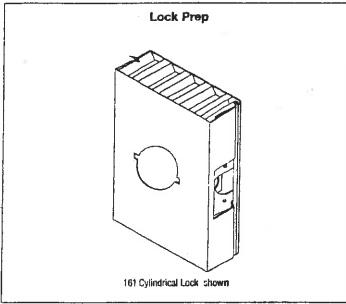
1 Usage frequency is based on ANSI A250.8-1998

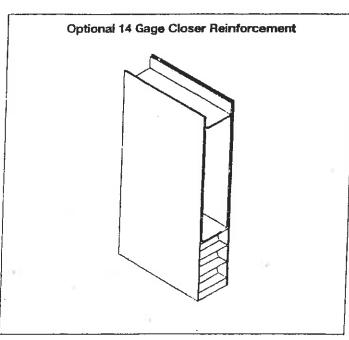
<sup>2</sup> Reinforcements for galvannealed doors are also galvannealed

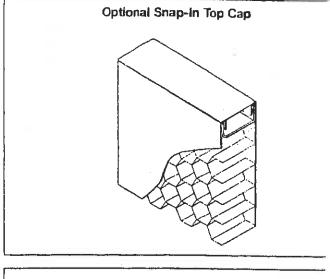
Commercial quality carbon steel

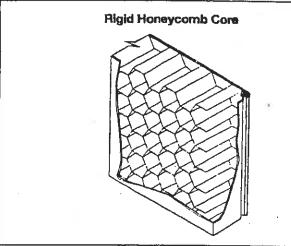






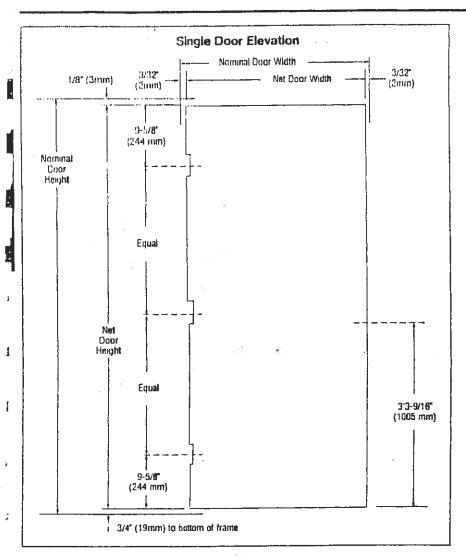






### **GENERAL NOTES:**

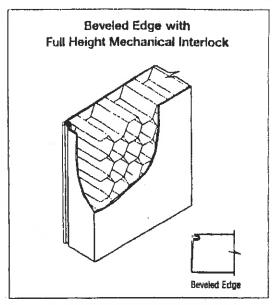
- 1. Edge construction:
  - Vertical edges (both hinge and lock) are beveled with a visible seam.
  - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
- Optional edge seams available in the L-Series door construction are as follows:
  - LF The mechanical edge seam is filled and finished pri to applying the factory primer.
  - LW The mechanical edge seam is welded and finished prior to applying the factory primer.
- 3. Optional cores available in the L-Series door construction
  - Polystyrene for exterior applications in extreme weather conditions.
  - Polyurethane for exterior applications in arctic weather conditions. Not Fire Rated.
- Standard hardware preparations: standard mortised and reinforced for:
  - Universal hinge preps 4½"(114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
  - Locks A multitude of standard lock preps are available. The most commonly used with a 4% (124mm) strike are 161, 61L and 86.

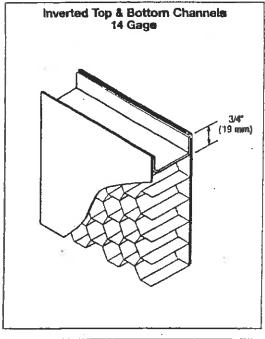


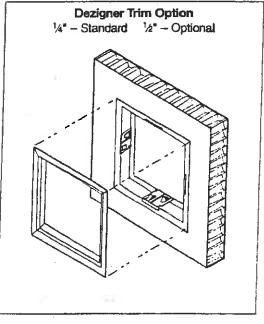
### **CONSTRUCTION NOTES:**

1

- Doors are 1¾\* (45mm) thick.
- 2. Door opening size maximum:
  Single door opening size 4'0" x 10'0" (1219mm x 3048mm)
  Double door opening size 8'0" x 10'0" (2438mm x 3048mm)
- 3. Standard operating clearances (installed in frame):
  Head = 1/6" (3mm) to bottom of head or transom panel
  Hinge and lock side = 3/2" (2mm) to rabbet on jamb
- 4. Standard core system:
  - 1" (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
- 5. Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
  - Lock preps details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located <sup>3</sup>/<sub>8</sub>" (9mm) lower.
- Glass lites with Dezigner trim and louvers: doors with glazed cutouts
  and doors with louvers are available (see Lites and Louvers section of Spec
  Manual).







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### INSTALLATION:

- 1. Installation shall conform to the published Steelcraft installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames, and ANSI/DHI A115-IG Installation Guide for Doors and Hardware.
- Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

### DOOR EDGE APPLICATIONS:

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edg●	Usage	Application
L	Heavy & Extra-heavy duty	High traffic in all commercial applications
LF	Heavy & Extra-heavy duty	High traffic, in sanitation conditions
LW	Heavy & Extra-heavy duty	High traffic, in sanitation and high abuse conditions

### **CONVERSION CHART**

ANSI A250.8 (SDI 100) Recommended Specification for Standard Steel Doors and Frames.

Standard Steel Do	013 2110 7 1011100		Total Salara	Edge Construction
Series	Level	Model	Description	
		1	Full Flush	Full height, visible mechanical interlocked edge
1.18	<u> </u>	<del> </del>	Seamless	L-Series with epoxy filled edge seams
LF18	2		Seamless	L Series with welded edge seams
LW18	2	2		Full height, visible mechanical interlocked edge
L16	3	1	Full Flush	L-Series with epoxy filled edge seams
LF16	3	2	Seamless	L-Selies with choxy most seams
	<del>                                     </del>	2	Seamless	L-Series with weided edge seams
LW16	3			

# DOUBLE DOOR APPLICATIONS:

1 3

Li

L-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

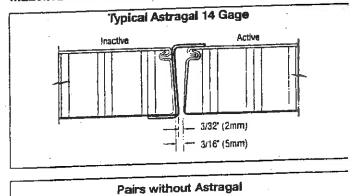
- Standard operating clearances (installed in frame):
  - Head = ½ (3mm) to bottom of head or transom panel
  - Hinge side = <sup>3</sup>/<sub>2</sub>2\* (2mm) to rabbet on jamb
  - Meeting edges = <sup>3</sup>/<sub>22</sub> (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf
  - Bottom = ¾\* (19mm) to bottom of frame

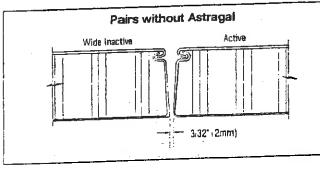
# **Double Door Elevation** Nominal Door Width 1/8" (3mm) **Active** 3/32\* 3/32" (2mm) (2mm) Nomina Door Height See meeting edge details 3/4 (19mm)

### Meeting edges:

- 14 Gage astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- · When an astragal is not used, the width of the inactive leaf is increased 3/12" (2mm).
- · Hardware preparations: the inactive leaf can be prepared for hardware as specified.

## **MEETING EDGE DETAILS:**





# Architectural Hing



# Full Moctise

### Five Knuckle

### Plain Bearing - Standard Weight

For use an medium weight doors or doors requiring low frequency service

1191 Brass with Stainless Steel pin
- ANSI A2133
Stainless Steel with Stainless Steel pin

1279 Steel with Steel pin - ANSI A8133

- ANSI A5133

· Non-rising removable pin with button tip and plug

. With door closer use ball bearing hinge

Hinge Size		Gauge of	augu of Hole	Screw Size	
Inches	् गुता	Metal	Count	Machina	Wood
2 x 2	51 x 51	0.083	4	-	3/4 x 8
21/2 x 21/2	64 x 64	0.089	6	-	3/4 x-8
3 x 3	76 x 76	0.097	6	-	1 x 9
31/2 x 31/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	11/4 x 12
41/2 x 4	114 x 102	0.134	8	1/2 x 12-24	11/4 x 12
41/2 x 41/2	114 x 114	0.134	8	1/2 x 12-24	11/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	11/4 x 12
5 x 41/2	127 x 114	0.145	8	1/2 x 12-24	11/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	11/4 x 12
6 x 41/2	152 x 114	0.160	10	1/2 x 1/4-20	11/2 x 14
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	11/2 x 14
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	11/2 x 14

### Five Knuckle



# Plain Bearing - Standard Weight - Wide Throw

For use on medium weight doors or doors requiring low frequency service

### 1191 Wide Throw

Brass with Stainless Steel pin - ANSI A2133

Stainless Steel with Stainless Steel pin - ANSI A5133

### 1279 Wide Throw

Steel with Steel pin - ANSI A8133

- · Non-rising removable pin with button tip and plug
- . With door closer use ball bearing hinge

Hing	Hinge Size		Hole	Screw Size	
Inches	mm	Metal	Count	Machine	Wood
31/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
31/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	11/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	11/4 x 12
4 x 7	: 102 x 178	0.129	8	1/2 x 12-24	11/4 x 12
41/2 x 5	114 x 127	0.134	- 8	1/2 x 12-24	11/4 x 12
41/2 x 6	114 x 152	0.134	8	1/2 x 12-24	11/4 x 12
41/2 x 7	114 x 178	0.134	8	1/2 x 12-24	11/4 x 12
41/2 x 8	114 x 203	0.134	8	1/2 x 12-24	11/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	11/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	11/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	11/4 x 12

### Concealed Bearing - Standard Weight

For use on medium weight doors or doors requiring medium frequency service

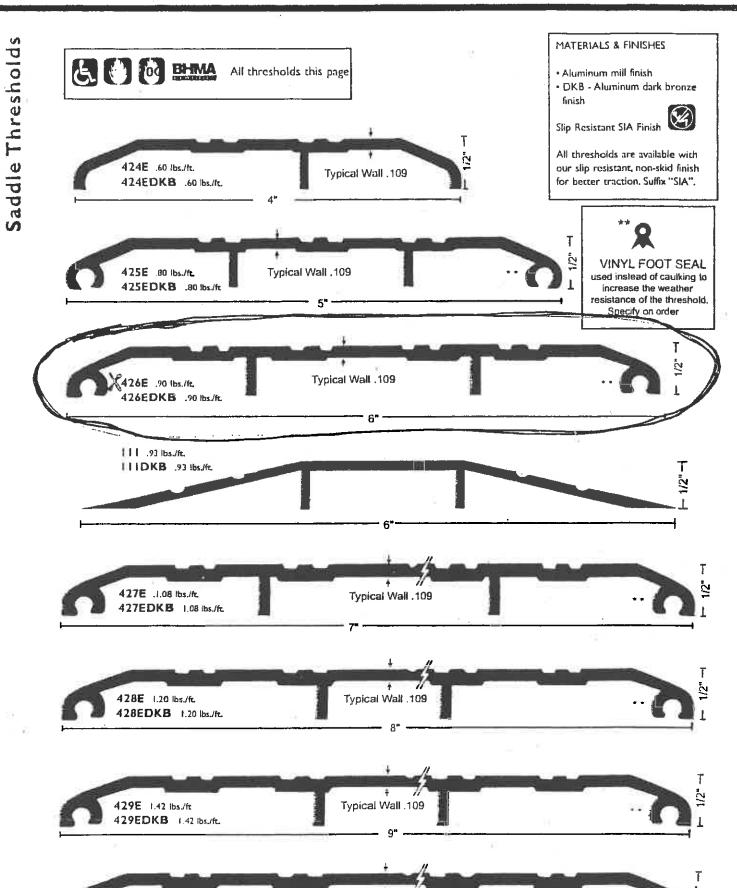
CB1191 Stainless Steel with Stainless Steel pin - ANSI A5112

- · Non-rising removable pin with button tip and plug
- · Only available with SecureCoat® Lifetime finish (US3SC)
- · Specify machine screws

Hingo Size		Gauge of Hole	Hole	Screw Size	
inches	mm:	Metal	Count	Machine	Wood
31/2 x 31/2	89 x 89	0.119	6	-	1 x 9
4 x 4	102 x 102	0.129	В	<b>-</b> .	11/4 x 12
41/2 x 4	114 x 102	0.134	8	_	11/4 x 12
41/2 x 41/2	114 x 114	0.134	8		11/4 x 12
5 x 4	127 x 102	0.145	8		11/4 x 12
5 × 41/2	127 x 114	0.145	8	-	11/4 x 12
5 x 5	127 x 127	0.145	8	-	11/4 x 12
6 x 41/2	152 x 114	0.160	10	- ;	11/2 x 14
6 x 5	152 x 127	0.160	10	- !	11/2 x 14
6 x 6	152 x 152	0.160	10	· '- ' !	11/2 x 14



430E 1.59 lbs./ft. 430EDKB 1.59 lbs./ft.



Typical Wall .109

10"

# Vinyl Perimeter Seals

### NATIONAL GUARD PRODUCTS, INC.

# Vinyl Seals

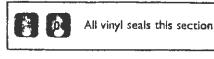
### Properties:

- · Synthetic palymer: Polyvinyl Chloride
- Economical

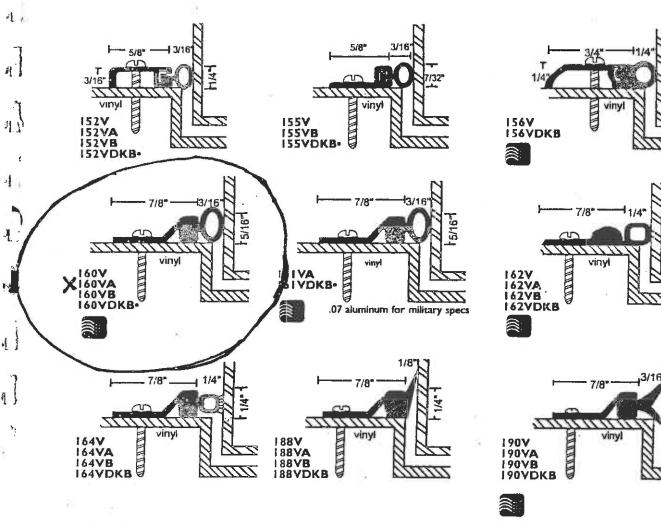
4 .

- · Flame resistant
- · Moisture resistant
- · Temperature range OF to 140F
- Plasticizers evaporate with age and exposure to UV, Cold, Heat causing hardening, loss of memory, loss of resilience, cracking and crazing

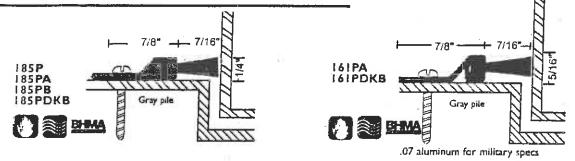
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished Screw holes slotted for adjustment



A - clear
B - gold
DKB - dark bronze
no suffix - mill
Vinyl is gray
(exception: \*vinyl is black)



### Pile Seals



### Specifications

### Handings

All D-Series lever locksets are non-handed.

### Door Thickness:

1 1/4" to 21/4" (41 mm-54 mm) standard including Vandlgard<sup>®</sup> functions.

See accessories (Page 12) for spacers required for 13/8" doors.

### Backsett

2.1/4" (70 mm) standard. 23/8", 3-1/4" and 5" (60 mm, 95 mm, 127 mm) optional.

### Faceplater

Brass, bronze or stainless steel. 11/4" x 21/4" (29 mm x 57mm) square corner, beveled.

### Lock Chassiss

Zinc plated for corrosion resistance.

### Latch Bolts

Steel, 1/2" (12mm) throw, deadlocking on keyed and exterior functions. 3/4" (19 mm) throw anti-friction latch available for pairs of fire doors.

### **Exposed Trime**

Levers: Pressure cast zinc, plated to match finish symbols. Roses: Solid brass.

### Striker

ANSI curved lip strike 11/4" x 47%" x 13/16" lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 11.

### Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

### Keying Options:

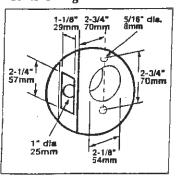
Interchangeable core and Primus<sup>®</sup> high security cylinders. Master keying, grand master keying and construction keying.

### Warranty:

Seven-year limited for all functions including Vandlgard®.

### Door Preparation

### Lever Designs



### Certifications

### **ANSI**

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

### Federal

Meets FF-H-106C Series 161.

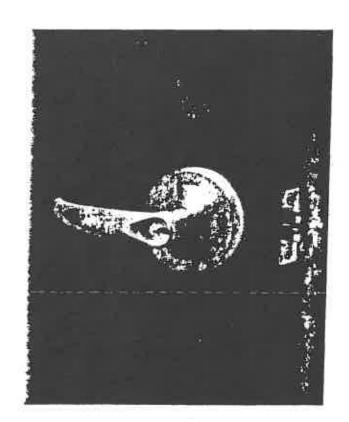
### California State Reference Code

(Formerly Title 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

### UL / cUL:

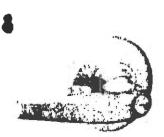
All locks listed for A label single doors, 4' x 8'. Letter F and UL symbol on latch front indicate listing. Electrified functions are UL19X Listed for single point locking applications.

UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



### Lever Designs & Finishes

### Lever Designs & Finishes



ATHENS
Symbol: ATH

Material: Pressure cast

zinc lever; wrought brass rose

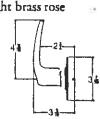
Finishes

605, 606, 612, 613, 619, 625,

626

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606



SPARTA.

Symbol: SPA (17)

Material: Pressure cast

zinc lever; wrought brass rose

Finishes

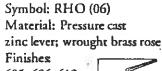
605, 606, 612,

613, 619, 625,

62**6** 

626

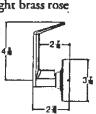




605, 606, 612, 613, 619, 625,

626

612 &



### OMEGA

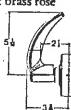
Symbol: OME Material: Pressure cast zinc lever; wrought brass rose

Finishes

605, 606, 612, 613, 619, 625,

626

Ġ.





605 Bright Brass



606 Satin Brass



612 Satin Bronze



613 Oil Rubbed Bronze



619 Satin Nickel



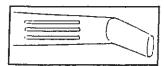
625 Bright Chromium



626 Satin Chromium Plated



Keyed functions available with interchangeable core options. Levers are available for full size and small format interchangeable cores.



TACTILE WARNING (KNURLING)

Change symbol designation as

follows:

8AT for Athens

8RO for Rhodes

8SP for Sparra

Only outside lever is knurled unless otherwise specified.

### Finishes.

605 Bright Brass

606 Satin Brass

612 Satin Bronze

613 Oil Rubbed Bronze

619 Satin Nickel

625 Bright Chromium Plated

626 Satin Chromium Plated

### Functions

### Non-Keyed Locks

SCHLAGE

ND10S

ANSI **F75** 



Passage Latch

Both levers always unlocked.



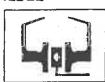
F89.



Exit Lock

Outside lever always fixed. Inside lever always unlocked.

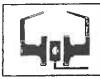
### ND12DEL



Electrically Locked (Fail Safe)

Outside lever continuously locked electrically. Unlocked by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

### ND12DEU



Electrically Unlocked (Fail Secure)

Outside lever continuously locked until unlocked by electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

### ND25D



Exit Lock

Blank plate outside. Inside lever always unlocked.

### ND40S

F76



Bath/Bedroom Privacy Lock

Push-button locking. Can be opened from outside with small screwdriver. Turning inside lever or closing door releases button.

### **ND44S**



Hospital Privacy Lock

Push-button locking. Unlocked from outside by turning emergency turn-button. Turning inside lever or closing door releases button.

### ND170



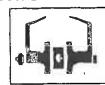
Single Dummy Trim

Dummy trim for one side of door. Used for door pull or as matching inactive trim.

### Keyed Locks

SCHLAGE ANSI

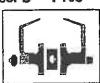
### ND50PD F82



Entrance/Office Lock\*

Push-button locking, Push-button locks outside lever until unlocked with key or by turning inside lever.

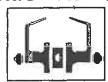
### ND53PD F109



**Entrance Lock\*** 

Turn/push-button locking; pushing and turning button locks outside lever, requiring of key until button is manually unlock. Push-button locking; pushing button locks outside lever until unlocked by key or by turning inside lever.

### ND60PD F88



Vestibule/Classroom Security
Lock\*

Latch retracted by key from outside when outside lever is locked by key in inside leve Inside lever is always unlocked.

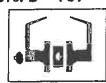
### ND66PD F91



Store Lock\*†

Key in either lever locks or unlocks both levers.

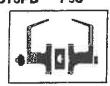
### ND70PD F84



Classroom Lock\*

Outside lever locked and unlocked by key Inside lever always unlocked.

### ND73PD F90



Corridor Lock\*

Outside lever locked by key outside or push-button inside. Push-button released by rotating inside lever or closing door. When outside lever is locked by key, key must be used to unlock it. Inside lever is always unlocked.

- \* Available functions for small format interchangeable
- † Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

### Specifications

### Handings

Keyed functions are reversible. Non-keyed functions are not handed.

### Door Thickness:

1 1/4" to 17%" (35 mm to 48 mm) standard. 2" (51 mm) to 21/2" (64 mm) optional extended inside.

### Backset:

2½" (60 mm) standard, 2¼" (70 mm), 3¼" (95 mm) and 5" (127 mm) optional.

### Fronts

Steel. 11/6" x 21/4" square corner, beveled, for 23/4" backset standard. Optional 1" square corner, 1" radius corner, and non-UL drive-in / round face. For availability with specific backsets, see page 6.

### Lock Chassiss

Steel, zinc dichromate plated for corrosion resistance.

### Latch Bolts

Brass, chrome plated, 1/2" throw, deadlocking on keyed and exterior functions.

### **Exposed Trims**

Wrought brass, bronze or stainless steel. Levers are pressure cast zinc, plated to match finish symbols.

### Striker

T-strike 1%" x 2%" (29 mm x 70 mm) x 1%" (29 mm) lip to center with box standard. Optional strikes, lip lengths and ANSI strike box available. See page 7.

### Cylinder & Keys:

Commercial: 6-pin patented Everest C123 keyway standard with two nickel silver keys per lock. Residential: 6-pin C keyway, keyed 5-pin.

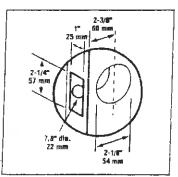
### Keying Options:

Interchangeable core and Primus<sup>66</sup> high security cylinders. Master keying, grand master keying, and construction keying.

### Warranty:

Commercial: three-year limited. Residential: Full mechanical lifetime.

### Door Preparation



### Certifications

### ANSI

Meets or exceeds A156.2 Series 4000, Grade 2 strength and operational requirements.

### Federal

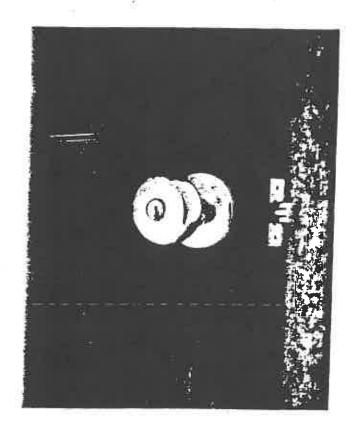
Meets FF-H-106C.

### California State Reference Code

tFormerly Tide 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

### UL/ULC:

All locks listed for A label single doors, 4' x 8'. Letter F and UL symbol on latch front indicate listing. UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



### Designs & Finishes



### **GEORGLAN**

Symbol: GEO Material: Wrought brass Finishes: 605, 606, 609, 610, 625, 626



### **LEVON**

Symbol: LEV Material: Pressure cast zinc lever; wrought brass or bronze rose Finishes: 605, 612,

613, 626

605



609



### **ORBIT**

Symbol: ORB Material: Wrought brass or bronze Finishes: 605, 606, 609, 610, 611, 612, 613, 616, 625, 626



613



### **PLYMOUTH**

Symbol: PLY Material: Wrought brass, bronze, or stainless steel Finishes: 605, 606, 609, 610, 611, 612, 613, 616, 625, 626, 629, 630

605



**TULIP** 

Symbol: TUL Material: Wrought brass Finishes: 605, 606, 609, 610, 625, 626



626

Note: Levon available as inside trim only on deadlatch functions. Specify complete trim application and door handing when ordering with deadlatch functions.

### Finishes

605 Bright Brass

606 Satin Brass

Antique Brass

Bright Brass, Blackened

611 Bright Bronze

Satin Bronze 612

613 Oil Rubbed Bronze

Antique Bronze

**Bright Chromium Plated** 

Satin Chromium Plated

629 Bright Stainless Steel

630 Satin Stainless Steel

Keyed functions available with full size interchangeable core option for Orbit design.

### Functions

D

ANSI A156.2 Series 4000 Grade 2

### Non-Keyed Functions

SCHLAGE ) ANSI

ALOS F75

Passage Latch Both knobs always unlocked.



A25D Exit Lock

Blank plate outside. Inside knob always unlocked. Specify door thickness, 11/1" or 11/4".

A30D F77

Patio Lock

Push-button locking. Turning inside knob or closing door releases button, preventing lock-out.

**A40S** F76

Bath/Bedroom Privacy Lock

Push-button locking. Can be opened from outside with small screwdriver. Turning inside knob or closing door releases button.

A43D

Communicating Lock

Turn-button in outer knob locks and unlocks knob and inside thumbrurn.

A170

Single Dummy Trim

Dummy trim for one side of door. Used for door pull or as matching inactive trim. Keyed Functions

SCHLAGE ANSI -

A53PD F109



Entrance Lock

Turn/push-button locking: pushing and turning button locks outside knob requir use of key until button is manually unloc Push-button locking: pushing button lock outside knob until unlocked by key or by turning inside knob.

A70PD F84

Classroom Lock

Outside knob locked and unlocked by ke Inside knob always unlocked.

A79PD

Communicating Lock

Locked or unlocked by key from outside. Blank plate inside.

A80PD F86



Storeroom Lock

Outside knob fixed. Entrance by key only Inside knob always unlocked.

A85PD F93



Hotel/Motel Lock

Ourside knob fixed. Entrance by key only Push-button in inside knob activates visual occupancy indicator, allowing only emergency masterkey to operate. Rotation of inside spanner-button provides lock-ou feature by keeping indicator thrown.

### PART 1 - GENERAL

### 1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Warranty: Warranty materials and workmanship of sealing against leaks, adhesion, and cohesive failure for a period of two years from the date of substantial completion.
- C. References:
  - 1. American Society for Testing and Materials
    - a) ASTM C790 Recommended practices for use of latex sealing compounds.
    - b) ASTM C920 Elastomer Joint Sealants.
  - 2. Federal Specifications
    - a) FS TT-S-00230C (2), Sealing Compound, Elastomeric Type, Single Component (for caulking, sealing and glazing in buildings and other structures).
    - b) FS TT-S-00227E (3), Sealing Compound, Elastomeric Type, Multi-component (for caulking, sealing and glazing in buildings and other structures).

### PART 2 - PRODUCTS

### 2.1 JOINT SEALANTS

- A. Compatibility: Provide joint sealants, joint fillers, and other related materials that have been tested and found compatible with one another and with joint substrates under service and application conditions.
- B. Interior Scalant: Provide ASTM C 834. If no color is specified, use Gray. Location(s) of sealant for the following:

  1. Small voids between walls or partitions and adjacent door frames, and similar items.
  - Perimeter of frames at doors, windows, and access panels which adjoin exposed interior concrete and
    masonry surfaces.
- C. Exterior Scalant: Provide ASTM C 920, polyurethane or polysulfide, Type M, Grade NS, Class 25, Shore A hardness of 20-40. If no color is specified, use Gray. Location(s) of scalant for the following:
  - Joints and recesses formed where frames and vents adjoin masonry, concrete, or metal frames. Use scalant at both exterior and interior surfaces of exterior wall penetrations. Color to match adjacent surface.

### 2.2 ACCESSORIES

- A. Primers: Provide a nonstaining, quick-drying type and consistency recommended by the sealant manufacturer for the particular application.
- B. Bond Breakers: Provide the type and consistency recommended by the sealant manufacturer to prevent adhesion of the sealant to backing or to bottom of the joint.
- C. Cleaning Solvents: Provide type(s) recommended by the sealant manufacturer, except for aluminum and bronze surfaces that will be in contact with sealant.

### **PART 3 - EXECUTION**

### 3.1 PREPARATION

- A. Clean surfaces from dirt frost, moisture, grease, oil, wax, lacquer, paint, or other foreign matter that would tend to destroy or impair adhesion. Remove oil and grease with solvent. Surfaces must be wiped dry with clean cloths. When resealing an existing joint, remove existing calk or sealant prior to applying new sealant. For surface types not listed below, contact sealant manufacturer for specific recommendations.
  - Steel Surfaces: Remove loose mill scale by sandblasting or, if sandblasting is impractical or would damage finish work, scraping and wire brushing. Remove protective coatings by sandblasting or using a residue-free solvent.
  - 2. Aluminum or Bronze Surfaces: Remove temporary protective coatings from surfaces that will be in contact with sealant. When masking tape is used as a protective coating, remove tape and any residual adhesive just prior to sealant application. For removing protective coatings and final cleaning, use nonstaining solvents recommended by the manufacturer of the item(s) containing aluminum or bronze surfaces.
  - 3. Concrete and Masonry Surfaces: Where surfaces have been treated with curing compounds, oil, or other such materials, remove materials by sandblasting or wire brushing. Laitance, remove efflorescence and loose mortar from the joint cavity.

- Wood Surfaces: Keep wood surfaces to be in contact with sealants free of splinters and sawdust or other loose particles.
- B. Do not add liquids, solvents, or powders to the scalant. Mix multi-component elastomeric scalants in accordance with manufacturer's instructions.

### 3.2 INSTALLATION

A. Joint Width-to-Depth Ratios: Install per manufacturer's recommendation or as described below, whichever is more stringent.

Acce	ptable R	atios:	Minimum	Maximum
a)	For n	netal, glass, or other nonporous surfaces:		· · · · · · · · · · · · · · · · · · ·
	(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
	(2)	Over 1/4 inch (6 mm)	1/2 of width	Equal to width
b)	For v	vood, concrete, masonry, or stone:		Edam to wider
	(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
7.4	(2)	Over 1/4 inch(6 mm) to 1/2 inch (13 mm)	1/4 inch (6 mm)	Equal to width
	(3)	Over 1/2 inch (13 mm) to 2 inch (50 mm)	1/2 inch (50 mm)	5/8 inch (16 mm)
	(4)	Over 2 inch (50 mm)	(As recommended	

Unacceptable Ratios: Where joints of acceptable width-to-depth ratios have not been provided, clean out
joints to acceptable depths and grind or cut to acceptable widths without damage to the adjoining work.
Grinding is not required on metal surfaces.

B. Masking Tape: Place masking tape on the finish surface on one or both sides of a joint cavity to protect adjacent finish surfaces from primer or sealant smears. Remove masking tape within 10 minutes after joint has been filled and tooled.

C. Immediately prime prior to application of the sealant, clean out loose particles from joints. Where recommended by sealant manufacturer, apply primer to joints in concrete masonry units, wood, and other porous surfaces in accordance with sealant manufacturer's instructions. Do not apply primer to exposed finish surfaces.

D. Provide bond breakers to the back or bottom of joint cavities, as recommended by the sealant manufacturer for each type of joint and sealant used, to prevent sealant from adhering to these surfaces. Carefully apply the bond breaker to avoid contamination of adjoining surfaces or breaking bond with surfaces other than those covered by the bond breaker.

- E. Provide a sealant compatible with the material(s) to which it is applied. Do not use a sealant that has exceeded shelf life or has jelled and can not be discharged in a continuous flow from the gun. Apply the sealant in accordance with the manufacturer's printed instructions with a gun having a nozzle that fits the joint width. Force sealant into joints to fill the joints solidly without air pockets. Tool sealant after application to ensure adhesion. Make sealant uniformly smooth and free of wrinkles. Upon completion of sealant application, roughen partially filled or unfilled joints, apply sealant, and tool smooth as specified. Apply sealer over the sealant when and as specified by the sealant manufacturer.
- F. Thresholds: Place double band of scalant under and along all sides of all exterior thresholds.

**END OF SECTION 07920** 

# **FINAL ABATEMENT REPORTS**



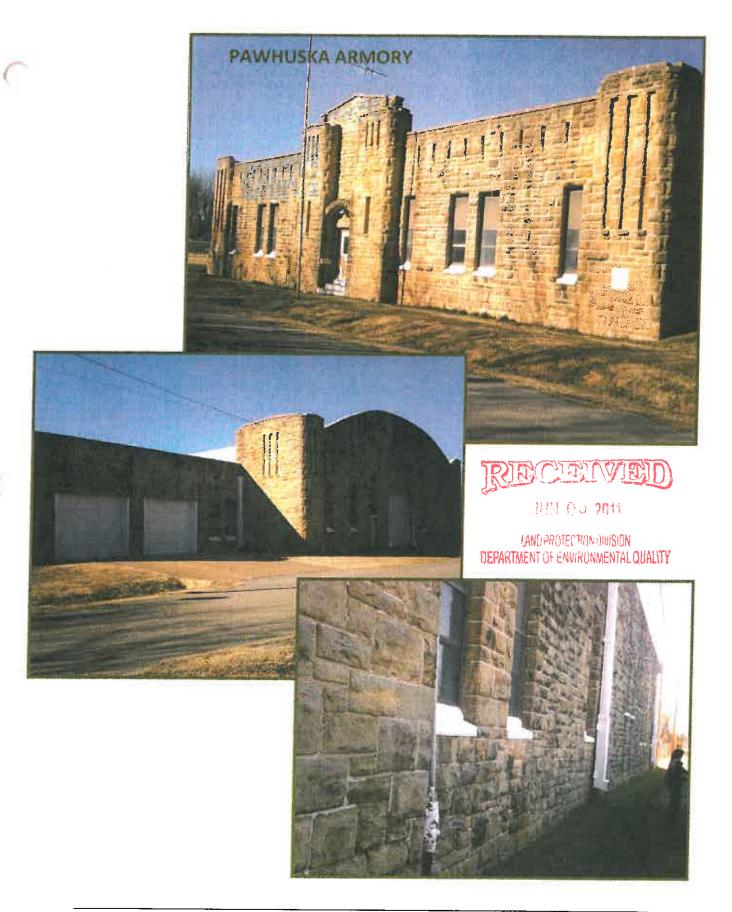
# **Lead Remediation 10276**

# Lead Remediation for Perry Armory & Pawhuska Armory

Perry Armory, 309 North 14<sup>th</sup> Street, Perry, Oklahoma Pawhuska Armory, 823 East 8<sup>th</sup> Street, Pawhuska, Oklahoma

Report Date: March 19<sup>th</sup>, 2011





### **SUMMARY:**

Crystal Creek Environmental Solutions, Inc. (Crystal Creek) prepared preformed Lead Remediation under contract with the Department of Central Services and with oversight from the Oklahoma Department of Environmental Quality at the Perry and Pawhuska National Guard Armory. The purpose for the remediation was to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms or office space.

All remediation efforts were preformed in accordance with the Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006, Department of the Army and Air Force, National Guard Bureau and in accordance with OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead based paint abatement, indoor firing range remediation and lead dust remediation.

All work was preformed by skilled, Licensed Lead Based Paint Workers, licensed by the State of Oklahoma.

### LOCATIONS:

### Location 1:

309 North 14<sup>th</sup> Street, Perry, Oklahoma 823 East 8<sup>th</sup> Street, Pawhuska, Oklahoma

# **Table of Contents**

Contract Documents and Change Orders	Section 1
Statement of Work and Addendums	Section 2
Perry and Pawhuska Photos	Section 3
Perry and Pawhuska Waste Profile & Water Test	Section 4
Waste Manifest	Section 5

# **SECTION 3**

# **Perry and Pawhuska Photos**

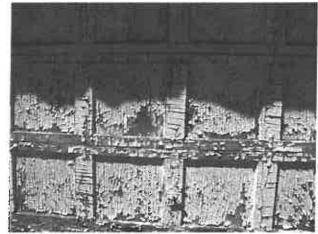


Photo: 1) Pre Lead Abatement



Photo: 2) Pre Lead Abatement

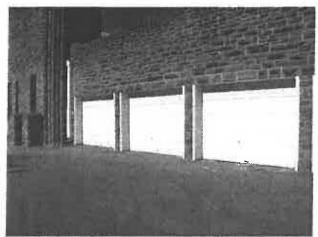


Photo: 3) Pre Lead Abatement



Photo: 4) Pre Lead Abatement



Photo: 5) Pre Lead Abatement

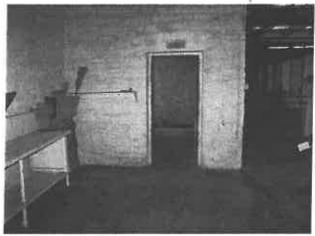


Photo: 6) Pre Lead Abatement



Photo: 7) Post Lead Abatement; Lead-Based Paint Frame with Paint Removed.



Photo: 9) Post Lead Abatement; Primed Door and Frame after LBP removal.



Photo: 11) Post Lead Abatement; Downspout and Window Sill Sealed with Approved Encapsulant.



Photo: 8) Post Lead Abatement; Lead-Based Paint Door Frame with Paint Removed.



Photo: 10) Post Lead Abatement; Floor Sealed after LBP



Photo: 12) Post Lead Abatement; Overhead Door and Jamb after LBP Encapsulated.

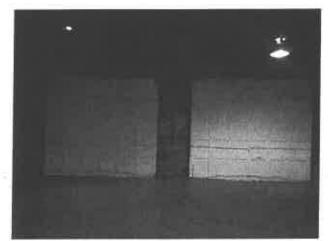


Photo: 13) Post Lead-Based Paint Abatement.



Photo: 14) Post Lead-Based Paint Abatement; New Door

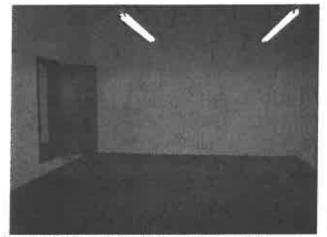


Photo: 15) Post Lead-Based Paint Abatement, Walls, Floor, Door Frame and Vault Door.



Photo: 16) Post Lead-Based Paint Abatement of Stair Rail, New Door and Door Frame.



Photo: 17) Post Lead Abatement; Primed Door Frame after LBP Removal and Encapsulated Walls.



Photo: 18) Post Lead-Based Paint Exterior Abatement;



Photo: 1) Pre Lead Abatement

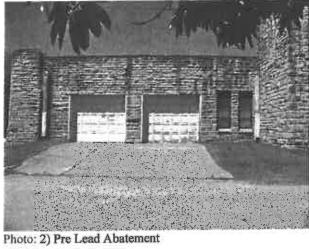




Photo: 3) Pre Lead Abatement

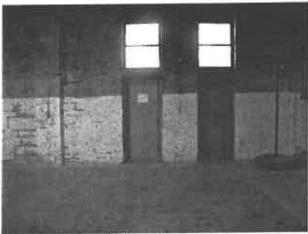


Photo: 4) Pre Lead Abatement



Photo: 5) Pre Lead Abatement



Photo: 6) Pre Lead Abatement



Photo: 7) Post Lead Abatement; Lead-Based Paint Frame



Photo: 9) Post Lead Abatement; New Door and Primed Frame after LBP removal.

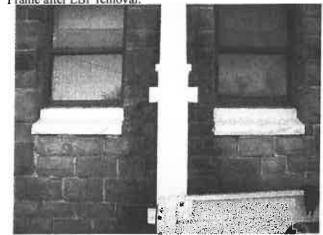


Photo: 11) Post Lead Abatement; Downspout and Window Sill Sealed with Approved Encapsulant.



Photo: 8) Post Lead Abatement; Lead-Based Paint Door Frame with Paint Removed.



Photo: 10) Post Lead Abatement; Floor Sealed after LBP



Photo: 12) Post Lead Abatement; Overhead Door Casing, Wall Trim and Window Sill after LBP.



Photo: 13) Post Lead-Based Paint Abatement. New Door and Primed Door Frame after LBP Removal.



Photo: 14) Post Lead-Based Paint Abatement of Stair Rail, New Door and Door Frame.

# **SECTION 4**

Perry and Pawhuska Waste Profile and Water Test

# vironmental

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

**Analytical Report** 

Report Date:

10/29/2010

Order# Project # 2010100420 10-079

Laboratory Certificate # 7211

Client: Mr. Michael Jenkinson

**Crystal Creek Environmental Solutions** 

1401 Cornell Parkway Oklahoma City, OK 73127 Project: Perry

# **Analytical Results**

Client Sample ID:

**Tank 1 Filtered** 

Sample Collected: 10/21/2010 @ 09:00

ETIID: 1

Matrix: Aqueous

**Parameter** 

Result

Units

Analyzed On

**Analyst** 

Method

Lead

10/28/2010 03:49:40 PM

Respectfully Submitted:

Russell Britten

Unless ETI receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Order #: 2010100420

Page 1 of 2



4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

**Quality Control Report** 

Report Date:

10/29/2010

Order#

2010100420

Laboratory Certificate # 7211

# **Quality Control**

#### Aqueous

Blank

Parameter	QC Value	Units	ETI ID
Lead	<0.001	mg/L	1

#### **Duplicate**

Parameter	QC Value	Units	ETIID
Lead	33.6*	% dif.	1

#### **LCS**

Parameter	QC Value	Units	ETIID
Lead	101	% rec.	1

#### Matrix Spike

Parameter	QC Value	Units	ETIID
Lead	106	% rec.	1

#### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
Lead	103	% rec.	1

E = Estimated Value (above linear range)

M = Out of Control Due to Matrix Effect

D = Surrogate or Matrix Spike Diluted Out

Q = Outside of QC Limits on Both Original and Rerun

C = Possible Laboratory Contamination

\* = Out of Control

J = Estimated Value (below linear range)

\*TA = Lab ID: 9412

\*ER = Lab ID: 8727

# CHAIN OF CU DDY RECORD

SAMPLE SERIES #: $2010100U7C$	DUE DATE:	ANALYSES						OD CONSESSED	CLAD COMMENIO					4 7 10 10NS:	CANDITIONAL COST MAY APPLY)  REGULAR	5.
4619 NORTH SANTA FE OKLAHOMA CITY, OK 73118 (405) 488-2400		(40) Come / Parkues 1. WATER	801	10-079 CONTAINER TYPE	5 MANAGER:	T - TEFLON	ONTAINER SAMPLING PRESERVATIVES	SIZE TYPE # DATE TIME	Filtered 1302 1 (10-21-109:00 HNO3 X				OAMPLEK:	6-10 RECEIVED BY.	10 RECEIVED BY: DATE (9/24/2)	7 TIME 12 CC TO PRECEIVED BY TIME 12 CC TIME 12 COMMENTS.
EUVIRIONIMENUAL TESTING INC		COMPANY	PHONE#.	P.O. #;CLIENT CONTACT:	PROJECT #:SITE LOCATION:		SAMPLE Sy	7	426			SAMPLE CONDITION:		RELIMOTERING BY:		Many Com



# WASTE MATERIAL PROFILE SHEET

#### Clean Harbors Profile No. CH478746

A. GENERAL INFORMATION GENERATOR EPA ID #/REGISTRATION #

ADDRESS 1401 Cornell Parkway #100

**CESQG** 

GENERATOR NAME:

Oklahoma Department of Environment Programment Of Environment Of E

STATE/PROVINCE **OK0184** CITY Perry

OK DEPARTMENT OF ENDIRORMENTAL QUALITY

PHONE: (405) 317-4856

Crystal Creek Environmental Solutions

ENERATOR CODE (Assigned by Clean Harbors) ADDRESS 309 14th Street CUSTOMER CODE (Assigned by Clean Harbors)

CR1898

CUSTOMER NAME: CITY Okiahoma City

STATE/PROVINCE

OK ZIP/POSTAL CODE

73108

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B. WASTE DESCRIPTION WASTE DESCRIPTION:	Lead Based Paint C	Chips and Lead Dust				
PROCESS GENERATING	WASTE: Paint	removal and dust cleaning		· · · · · · · · · · · · · · · · · · ·		_
IS THIS WASTE CONTAIN	ED IN SMALL PACKAGII	NG CONTAINED WITHIN A LARGER	SHIPPING CONTAINER? NO	<b>)</b>		
C. PHYSICAL PROPERTIE	S (at 25C or 77F)					
PHYSICAL STATE  SOLID WITHOUT FREI POWDER  MONOLITHIC SOLID LIQUID WITH NO SOLI LIQUID/SOLIO MIXTUF % FREE LIQUID % SETTLED SOLIO	IDS RE	% BY VOLUME (Approx.)	OP 0.00  IIDDLE 0.00  OTTOM 0.00  BOILING POINT *F (*C)	VISCOSITY (If liquid present) 1 - 100 (e.g. Water) 101 - 500 (e.g. Motor Oil) 501 - 10,000 (e.g. Molasses) > 10,000 MELTING POINT *F (*C)  T	yari	lous
% TOTAL SUSPENDE SLUDGE GAS/AEROSOL	ED SOLID	MILD STRONG Describe:	<= 95 (<=35) 95 - 100 (35-38) 101 - 129 (38-54) >= 130 (>54)	< 140 (<60) 140-200 (60-93) 2 > 200 (>93)	<b>∠ARBON</b> ✓ ←= 1 1-9% >= 1	1% %
FLASH POINT °F (°C)  < 73 (<23)  73 - 100 (23-38)  101 -140 (38-60)  141 -200 (60-93)  > 200 (>93)  A COMPOSITION (List)	pH	SPECIFIC GRAVITY  < 0.8 (e.g. Gasoline)  0.8-1.0 (e.g. Ethanol)  1.0 (e.g. Water)  1.0-1.2 (e.g. Antifreeze)  > 1.2 (e.g. Methylene Chloride	0.1 - 1.0 • 1.1 - 5.0 • 5.1 - 20.0	BTU/LB (MJ/kg)  < 2,000 (<4.6) 2,000-5,000 (<5,000-10,000) > 10,000 (>23)  Actual:	(4.6-11.6) (11.6-23.2) 3.2)	ma ic
	, please supply an MSDS.	Please do not use abbreviations.)	onena anum devira. Herigea ior «	MIN		MAX UO
LEAD BASED PAINT CI LEAD DUST		***************************************		50.0000000 — 25.0000000 —	75.00000 50.00000	000 %
	ED HOSE > 12" LONG, M	E METAL DEBRIS OR OTHER LARC ETAL WIRE >12" LONG, METAL VA			YES	¥ NO
If yes, describe, inclu	ding dimensions:					
DOES THIS WASTE CONT	AIN ANY METALS IN PO	OWDERED OR OTHER FINELY DIVI	DED FORM?		Y YES	NO
	AL WASTE, PATHOLOG	CTED ANY OF THE FOLLOWING; A ICAL WASTE, HUMAN OR ANIMAL			YES	¥ NO
		ner infectious nor does it contain any act the answer below that applies:	organism known to be a threat to h	uman health. This certification is		
The waste was neve	r exposed to potentially in	nlectious material.			YES	NO
Chemical disinfection	or some other form of at	terilization has been applied to the wa	este.		YES	NO
I ACKNOWLEDGE THAT TI	HIS PROFILE MEETS TH	IE CLEAN HARBORS BATTERY PA	CKAGING REQUIREMENTS.		YES	NO
I ACKNOWLEDGE THAT M	Y FRIABLE ASBESTOS	WASTE IS DOUBLE BAGGED AND	WETTED.		YES	NO
SPECIFY THE SOURCE CO	DDE ASSOCIATED WITH	I THE WASTE. G13	SPECIFY THE FORM COD	E ASSOCIATED WITH THE WASTE.	. W319	



#### Clean Harbors Profile No. CH478746

^^	RIOT	TTU	of Mi	TO:
 LL	N.S.I			13

e these values based on testing or knowledge?

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste.

customer knowledge- Removal of lead-based paint and clean lead dust from old liting range.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLIC	CABLE	
D004	ARSENIC	5.0	•			<b>3</b>		
0005	BARIUM	100.0	* * * * * * * * * * *			Ÿ,		
0006	CADMIUM	1.0				*		
0007	CHROMIUM	5.0		,		<u>~</u>		
0008	LEAD	5.0	14.0000	14.0000000	PPM			
*	MERCURY	0.2	17.0000			<del>-</del>		
0009								
D010	SELENIUM	1.0				******		
0011	SILVER	5.0						
	VOLATILE COMPOUNDS		il	OTHER CONSTITUENTS	\$	MAX	MOB	NOT
2018	BENZENE	0.5						APPLICABL
0019	CARBON TETRACHLORIDE	0.5		BROMINE				
0021	CHLOROBENZENE	100.0		CHLORINE				
0022	CHLOROFORM	6.0		FLUORINE				<u> </u>
0028	1,2-DICHLOROETHANE	0.5		IODINE	,			<u> </u>
0029	1,1-DICHLOROETHYLENE	0.7		SULFUR				<u> </u>
0035	METHYL ETHYL KETONE	200.0		POTASSIUM				2
0039	TETRACHLOROETHYLENE	0,7		SODIUM				¥
0040	TRICHLOROETHYLENE	0.5		AMMONIA				<b>Y</b>
		0.2		CYANIDE AMENABLE				¥
0043	VINYL CHLORIDE			CYANIDE REACTIVE				7
	SEMI-VOLATILE COMPOUNDS			CYANIDE TOTAL				·····
0023	o-CRESOL	200.0				*******		······································
0024	m-CRESOL	200.0		SULFIDE REACTIVE				
0025	p-CRESOL	200.0		HOCs		PCBs		
0026	CRESOL (TOTAL)	200.0		NONE		✓ NONE	=	
0027	1,4-DICHLOROBENZENE	7.5		< 1000 PPM		< 50 8		
0030	2,4-DINITROTOLUENE	0.13		>= 1000 PPM		>=50		
0032	HEXACHLOROBENZENE	0.13		>= 1000 CCM		1		
0033	HEXACHLOROBUTADIENE	0.5				IF PCBS AF	RE PRESEN' GULATEO B	I, IS THE Y TSCA 40
0034	HEXACHLOROETHANE	3.0				CFR 761?		
0036	NITROBENZENE	2.0				Yes	3 🗸	NO
				•		, ,,,	· X.	110
0037	PENTACHLOROPHENOL	100.0						
0038	PYRIDINE	5.0						
0041	2,4,5-TRICHLOROPHENOL	400.0						
042	2,4,6-TRICHLOROPHENOL	2.0						
	PESTICIDES AND HERBICIDES	5						
012	ENDRIN	0.02						
0013	LINDANE	0.4						
014	METHOXYCHLOR	10.0						
015	TOXAPHENE	0.5						
0016	2,4-D	10.0						
017	2,4,5-TP (SILVEX)	1.0						
	CHLORDANE	0.03						
		**********						
1031	HEPTACHLOR (AND ITS EPOXIDE)	0.008						

MO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCE POLYMERIZABLE

**EXPLOSIVE** RAD!OACTIVE FUMING

REACTIVE MATERIAL

**OSHA REGULATED CARCINOGENS** 

NONE OF THE ABOVE



# Clean Harbors Profile No. CH478746

73					
		EGULA'	TORY		
	ж.	YES		NO	USEPA HAZARDOUS WASTE?
					D008
		YES	. <b>X</b>	NO	DO ANY STATE WASTE CODES APPLY?
					Texas Wasie Code
		YES	Ž	NO	DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?
	ن	YES		NO	IC THE HAST PRODUCT PRODUCTS PRODUCT AND PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO STATE OF THE PROPOSITION TO ST
		123		NO	IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?  LDR CATEGORY: This is subject to LDR.
					VARIANCE INFO:
		YES	~	NO	IS THIS A UNIVERSAL WASTE?
		YES		NO	IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?
		YES		NO	IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(H))?
		YES	~	NO	DOES TREATMENT OF THIS WASTE GENERATE A FOOS OR FO19 SLUDGE?
		YES		NO	IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268:9(C)?
		YES	¥.	NO	DOES THIS WASTE CONTAIN YOU'S IN CONCENTRATIONS >=500 PPM?
		YES		NO	DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?
		YES	*	NO	DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?
		YES	~	NO	IS THIS CERCLA REGULATED (SUPERFUND ) WASTE?
		YES	×.	NO	IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?
			-		Hazardous Organic NESHAP (HON) rule (subpart G)  Pharmaceuticals production (subpart GGG)
	,	YES	~	NO	IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?
			YES		NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?
			YES		NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?
			What	is the	TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)
			The t	casis fo	r this determination is: Knowledge of the Waste Or Test Data Knowledge Testing
			Desc	ribe th	knowledge:
G	. DO1	f/TDG I	NFOR	MATIC	N Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the comp
D	OT/T	DG PRO	OPER	SHIPF	ING NAME:
		NA30	77, H	AZAR	DOUS WASTE, SOLID, N.O.S., (LEAD), 9, PG III
					EQUIREMENTS REQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY ♥ OTHER as needed
•					20 Independ
	1	-20 C	YTOC		TAINERIZED BULK LIQUID BULK SOLID VSHIPMENT
		AGE C			GALLONS/SHIPMENT: O Min -O Max GAL. SHIPMENT UOM: TON YARD
(	ONT	AINER		: RD BC	TONS/YARDS/SHIPMENT: 0 Min - 0 Mex X PALLET
			E TAN		▼ DRUM
		OTH			DRUM SIZE: 55
	PEC	IAL RE	OUES	T	
		MENTS C			:
	route l				
		TOR'S C by certify			I don submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If
	Clean	Harbors	discove	ers a dis	repancy during the approval process, Generator grants Clean Harbora the authority to amend the profile, as Clean Harbors deems recessary, to reflect the discrepancy.
		AUTH	<del>l</del> ORIZ	ED SIG	NATURE NAME (PRINT) TITLE DATE
		1			Michael Justine, Consellant 1-13-11
			-		



### WASTE MATERIAL PROFILE SHEET

#### Clean Harbors Profile No. CH478744



A. GENERAL INFORMATION ENERATOR EPA ID #/REGISTRATION #

ENERATOR CODE (Assigned by Clean Harbors) ADDRESS 823 East 8th Street

**CESOG** 

OK0183

GENERATOR NAME: CITY Pawhuska Okiahoma Department of Environmental Quality 7015 STATE/PROVINCE

OK ZIP/POSTAL CODE

LANDPROTECTION DIVISION

PHONE: (405) 317-4856 Crystal Creek Environmentals **EXTREMT OF ENVIRONMENTAL QUALITY** 

CUSTOMER CODE (Assigned by Clean Harbors) CR1898 CUSTOMER NAME: ZIP/POSTAL CODE ADDRESS 1401 Cornell Parkway #100 CITY Oklahoma City STATE/PROVINCE OK 73108 **B. WASTE DESCRIPTION** WASTE DESCRIPTION: Lead Based Paint Chips, Debris and Lead Dust PROCESS GENERATING WASTE: Paint removal and dust cleaning IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER? No C. PHYSICAL PROPERTIES (at 25C or 77F) NUMBER OF PHASES/LAYERS VISCOSITY (If liquid present) COLOR PHYSICAL STATE SOLID WITHOUT FREE LIQUID 1 - 100 (e.g. Water) 2 3 TOP 0.00 POWDER various 101 - 500 (e.g. Motor Oil) MIDDLE 0.00 % BY VOLUME (Approx.) MONOLITHIC SOLID ROTTOM 501 - 10,000 (e.g. Molasses) LIQUID WITH NO SOLIDS 0.00 LIQUID/SOL/D MIXTURE > 10,000 % FREE LIQUID COOR % SETTLED SOLID MELTING POINT °F (°C) BOILING POINT OF (CC) TOTAL ORGANIC NONE % TOTAL SUSPENDED SOLID CARBON c= 95 (<=35) ٧ MILD SLUDGE < 140 (<60) <= 1% 95 - 100 (35-38) STRONG GAS/AFROSOL 140-200 (60-93) 1-9% 101 - 129 (38-54) Describe: v > 200 (>93) >= 10% >= 130 (>54) SPECIFIC GRAVITY FLASH POINT °F (°C) ASH BTU/LB (MJ/kg) < 0.8 (e.g. Gasoline) < 73 (<23) < 2,000 (<4.6) c= 2 < 0.1 > 20 0.8-1.0 (e.o. Ethanol) 73 - 100 (23-38) 2.1 - 6.9 2,000-5,000 (4.6-11.6) 0.1 - 1.0Unknown 1.0 (e.g. Water) 101 -140 (38-60) 5,000-10,000 (11.6-23.2) 7 (Neutral) 1.1 - 5.0 141 -200 (60-93) > 10,000 (>23.2) 7.1 - 12.4 1.0-1.2 (e.g. Antifreeze) 5.1 - 20.0> 200 (>93) >= 12.5 > 1.2 (e.g. Methylene Chloride) Actual (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is J. COMPOSITION used, please supply an MSDS. Please do not use abbreviations.) UOM CHEMICAL MAX **DUST, DEBRIS, DIRT, RAGS** 15.0000000 25.0000000 75.0000000 **LEAD BASED PAINT CHIPS** 50.0000000 50.0000000 25,0000000 **LEAD DUST** DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" Ÿ NO YES LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? If yes, describe, including dimensions: Y YES DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? NO DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY Ÿ NO FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies: The waste was never exposed to potentially infectious material. YES NO YES NO Chemical disinfection or some other form of sterilization has been applied to the waste NO I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES

YES

SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE.

MO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED.

G13

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.



#### Clean Harbors Profile No. CH478744

#### T. CONSTITUENTS

these values	based	on lesting	3 Q£	knowledge?
--------------	-------	------------	------	------------

Knowledge

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste.

customer knowledge. Removal of lead-based paint and clean lead dust from old firing range.

Please Indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	WOU	NOT APPLICA	BLE	
D004	ARSENIC	5.0	-			Z		
0005	BARIUM	100.0				Ž		
0006	CADMIUM	1.0				<b>Y</b>		
0007	CHROMIUM	5.0				V:		
0008	LEAD	5.0			*******			
0009		0.2						
	MERCURY		*******			······································		
0010	SELENIUM	1.0				······································		
D011	SILVER	5.0			******		• • • • •	
	VOLATILE COMPOUNDS			OTHER CONSTITUEN	ITS	MAX	MOU	NOT
D018	BENZENE	0.5						APPLICABL
0019	CARBON TETRACHLORIDE	0.5		BROMINE				<u> </u>
0021	CHLOROBENZENE	100.0		CHLORINE				· · · · · · · · · · · · · · · · · · ·
0022	CHLOROFORM	6.0		FLUORINE				<u> </u>
0028	1,2-DICHLOROETHANE	0.5		IODINE				<u>×</u>
0029	1,1-DICHLOROETHYLENE	0.7		SULFUR				
0035	METHYL ETHYL KETONE	200.0		POTASSIUM				<b>Y</b>
0039	TETRACHLOROETHYLENE	0.7		SODIUM				2
0040	TRICHLOROETHYLENE	0.5		AMMONIA				¥
		0.2		CYANIDE AMENABLE				Ş
043	VINYL CHLORIDE			CYANIDE REACTIVE		*********		·····
	SEMI-VOLATILE COMPOUN			******				
0023	o-CRESOL	200.0		CYANIDE TOTAL	• • • • • • • •			
0024	m-CRESOL	200.0	*******	SULFIDE REACTIVE				
0025	p-CRESOL	200.0		HOCs		PCBs		
0026	CRESOL (TOTAL)	200.0		Ž NONE		V NONE		
0027	1,4-DICHLOROBENZENE	7.5				< 50 PP	.a	
0030	2,4-DINITROTOLUENE	0.13		< 1000 PPM		>=50 PF		
0032	HEXACHLOROBENZENE	0.13	*******	>= 1000 PPM		1		
0033	HEXACHLOROBUTADIENE	0.5		İ		IF PCBS ARE		
0034	HEXACHLOROETHANE	3.0				CFR 761?		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0036	NITROBENZENE	2.0	• • • • • • • • •			YES	-3	NO
037	PENTACHLOROPHENOL	100.6				. , , , , ,	¥	
0038	PYRIDINE	5.9						
0041	2.4,5-TRICHLOROPHENOL	400.0						
0042	2,4,6-TRICHLOROPHENOL	2.0						
	PESTICIDES AND HERBICID							
012	ENDRIN	0.02						
013	LINDANE	0.4						
014	METHOXYCHLOR	10.0						
015	TOXAPHENE	0.5						
016	2,4-D	10.0						
017	2,4,5-TP (SILVEX)	1.0						
0020	CHLORDANE	0.03						
1031	HEPTACHLOR (AND ITS EPOXID	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • •					
	And the same same same same of the same same same same same same same sam	_,						

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

NO (If yes, explain)

**CHOOSE ALL THAT APPLY** 

DEA REGULATED SUBSTANCE **EXPLOSIVE FUMING OSHA REGULATED CARCINOGENS** POLYMERIZABLE RADIOACTIVE REACTIVE MATERIAL NONE OF THE ABOVE



# Clean Harbors Profile No. CH478744

, RI	EGULA	TORY	STAT	us
7	YES		NO	USEPA HAZARDOUS WASTE?
				D008
	YES	~	NO	DO ANY STATE WASTE CODES APPLY?
	120	. **		
				Texas Waste Code
	YES	4	NO	DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?
: 4				
×	YES		NO	IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?
				LDR CATEGORY: This is subject to LDR. VARIANCE INFO:
	YES	¥	NO	IS THIS A UNIVERSAL WASTE?
	YES		NO	IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?
	YES	:	NO	IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?
	YES	×	NO	DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?
	YES	<u> </u>	NO	IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?
	YES	<b>Y</b>	NO	DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?
	YES		NO	DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?
	YES	Y	NO	DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?
	YES	V	NO	IS THIS CERCLA REGULATED (SUPERFUND ) WASTE?
	YES	V	NO	IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?
				Hazardous Organic NESHAP (HON) rule (subpart G)  Pharmaceuticals production (subpart GGG)
	ven	Ÿ		
	YES		NO	IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?
		YES		NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?
		YES		NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?
		Wha	t is the	TAB quantity for your facility? Megagram/year (1 Mg = 2,200 bs)
		The	basis t	or this determination is: Knowledge of the Waste Or Test Data Knowledge Testing
		Desc	ribe th	e knowledge ;
G DO	T/TDG	INFO	MAT	ON
				PING NAME:
50171				RDOUS WASTE, SOLID, N.O.S., (LEAD), 9, PG III
M 20				
				REQUIREMENTS FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY VOTHER <u>as needed</u>
		22	co	NTAINERIZED BULK LIQUID BULK SOLID
1	1-20		.1	S/SHIPMENT
	AGE (			GALLONS/SHIPMENT: O MIN - O MAX GAL. SHIPMENT OUM: TON TARD
CONT	TAINEF			TONSYARDS/SHIPMENT: 0 Min - 0 Max
	CU	BIC YA	IRD B	OX PALLET
		TE TAI HER:	VK.	<b>♥</b> DRUM
	Oil	nen.		DRUM SIZE: 55
I. SPEC	IAL R	EQUE	\$T	
COM	MENTS	OR RE	QUEST	S:
route	to LG			
GENER				DN attorns submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If
Clear	Harbor	s disco	rersad	screpancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.
	ALIT	numer:	75D 6	GNATURE NAME (PRINT) TITLE / DATE
_	الموات مر		ی دران مسر	GNATURE NAME (PRINT) Telegrap Consultant /-/3-1/
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# **SECTION 5**

# **Waste Manifest**

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# Land Disposal Restriction Notification Form

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# Land Disposal Restriction Notification Form

Page: 1 of 1

Printed Date :Feb 15, 2011

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		<u>C</u> (	ertification			Applies to Manifest Line Items
Pursuant to 40 Part 268.	CFR 268.7(a), I h	ereby notify that	this shipment contain	s waste res	tricted under 40 CFR	1,
Waste analysis Signature : Title :	data, where aveil	able, is attached	Print Nam	ne	Jimy Brake	bi//_

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# FINAL REPORT SEPARTMENT OF ENVIRONMENTAL QUALITY

# DCS PROJECT NO. 11277

# PERRY AND PAWHUSKA ARMORIES

# **INDEX**

- 1. Sealed floors Photos Perry Armory
- 2. Sampling & Analysis Perry Armory
- 3. Hazardous Waste Disposal Manifest
- 4. Waste Acceptance Notification
- 5. Sealed floors Photos Perry Armory
- 6. Sampling & Analysis Perry Armory
- 7. Hazardous Waste Disposal Manifest
- 8. Waste Acceptance Notification



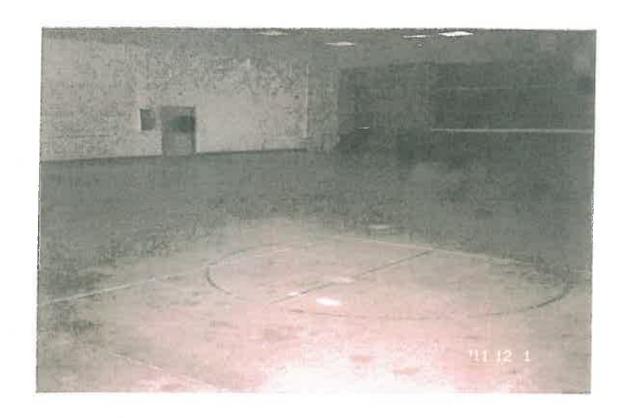


Page 1 of 6





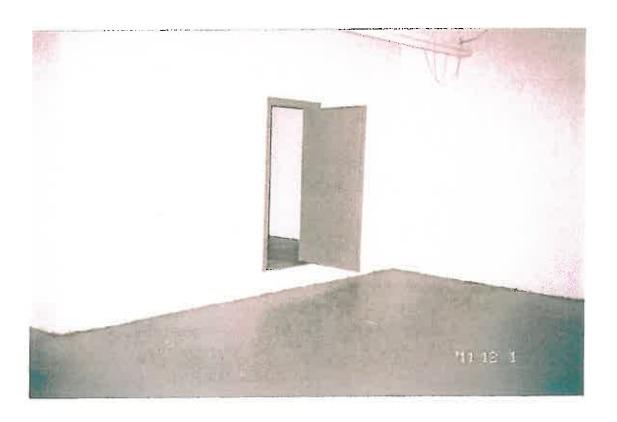
Page **2** of **6** 





Page 3 of 6





Page 4 of 6





Page 5 of 6





2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

# Environmental Chemistry Analysis Report

QuanTEM Set ID:

200704

Date Received:

10/12/11

Received By:

Sherrie Lestwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AlHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry Armory

Location:

Perry, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Paramete	er	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	P-A-01-1	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	111 779
002	P-A-02-1	Wipe	Lead		25.3	16			W EPA 7420 (1)
003	P-B-01-1	Wipe	Lead		<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
004	P-B-02-I	Wipe	Lead		<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
005	P-B-03-I	Wipe	Lead		<16.0		ug/sq. Ft.		W EPA 7420 (1)
006	P-B-04-I	Wipe	Lead			16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
007	P-C-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)
800	P-C-02-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
009	P-D-01-I	Wipe			<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
010	P-D-02-I	-	Lead		28.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
011	P-D-03-I	Wipe	Lead		47.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
012		Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
	P-D-04-I	Wipe	Lead		76.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
013	P-E-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
014	P-E-02-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	
015	P-E-03-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
016	P-E-04-I	Wipe	Lead		<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
017	P-F-01-1	Wipe	Lead		<16.0	16		10/13/11 14:00 10/13/11 14:00	W EPA 7420 (1) W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified, EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

# Environmental Chemistry Analysis Report

QuanTEM Set ID:

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report: 10/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry Armory

Location:

Perry, OK

Project No.:

N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
810	P-F-02-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/12/11 14:00	
019	P-F-03-1	Wipe	Lead	<16.0	16			W EPA 7420 (1)
020	P-F-04-1	Wipe	Lead	11,100	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
021	PS-A-01-1	Wipe	Lead	<16.0		ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (I)
022	PS-B-01-1	Wipe	Lead		16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
023	PS-C-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
024	PS-D-01-1	•		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
025	<del>_</del>	Wipe	Lead	<16.0	16	ug/sq. Ft,	10/13/11 14:00	W EPA 7420 (1)
	PS-E-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
026	PS-F-01-1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
027	PS1-A-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	
028	PS1-B-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
029	PS1-C-01-1	Wipe	Lead	<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
030	PS1-D-01-I	Wipe	Lead	<16.0	16		10/13/11 14:00	W EPA 7420 (1)
031	PS1-E-01-I	Wipe	Lead	<16.0		ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (I)
032	PS1-F-01-I	Wipe	Lead		16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
	22 4	pc	1-640	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

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Date Received:

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Client:

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Acct. No.:

A845

Project:

Perry Armory

Location:

Perry, OK

Project No.:

QuanTEM

ID

Client ID

Matrix

**Parameter** 

Results

Reporting Limits

Units

Date/Time

Analyzed

Method

**Authorized Signature:** 

Rebecca Sparks, Analysi

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified

### Supplemental Report **QAQC** Results

QA ID: Test:

9278

Lead

Date:

10/13/2011

Matrix: Wipe Lab Number:

200704

Approved By:

Rebecca Sparks

Date Approved: 10/13/2011

Notes:

### Blank Data:

Type of Blank	Blank Value
ICB	0
FCB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit
ccv	4.5	5	5.5
FCV	4.5	4.84	5.5
icv	0.8,	1.1	1.2
RLVS	0.256	0.34	0.384

### Duplicate Data:

Recovery Data:

Sample Number	;	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3		0.000	5.449	6.015	110.4	6.013	110.4	0.0
MS-W2		0.000	5.525	6.085	110.1	6.145	111.2	1.0
MS-W1		0.000	5.460	6.128	112.2	6.027	110.4	1.7

Authorized Signature:

Rebecca Sparks, Analysi

Page 1 of 1

# Load Chain-of-Custody

2033 Hartage Park Drive, Oktahoma City, OK 73120-7502 (800) 822-4630 (405) 755-1272 Fem (405) 755-2068

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Project Location:

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Residency May 2005



Company Marre: Challon Selvices, Tall.

# Lead Chain-of-Custody

2033 Hentege Park Drive, Oktahama City, OK 73120-7502 (800) 822-4650 (405) 755-7272 Fax: (405) 765-2059

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Project Number:

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Sakunday Fodica Shipping - CALL TO SCHEDNILE Use this address for Schunday Fodici only: 4220 M. Sanis Fe Avs., Oktahoma City, OK 73105-8517 Mark Package WOLD FOR SATURDAY PACKLIP\*

PARKERING Higy 2006

# 2033 Harhage Park Drive, Oktahoma Cily, OK 73120-7502 (860) 822-4600 (405) 755-7272 Fax (405) 755-2058 Lead Chain-of-Custody VINTE GUARNOTH SOM

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Project Name: Project Number:

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Pontson: May 2004

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	asignated Facility Owner or Op-	erator: Certification of receipt of haz	zardous materials covered t	by the manifest	except as note	ed in Item	18a				-	
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	d/Typed Name			Signatu				<u>,</u>		Month 1	Day	Year

# LAND DISPOSAL RESTRICTION AND SUBPART CC WASTE DETERMINATION CERTIFICATION

Generator Name: STATE OF OKLAHOMA DEPARTMENT

CENTRAL

Manifest Doc. #: 001480236FLE

OLIVITURE.

State Manifest #:

309 N. 14TH ST

PERRY, OK 73077

Generator USEPA ID#: OKCSQ1111111

Check this box if using a continuation sheet.

INSTRUCTIONS: In Column 1, identify all USEPA hazardous waste codes that apply to this waste approval/shipment. In Column 2, indicate the appropriate Treatability Group, Non-WasteWater (NWW) or WasteWaster (WW) for each waste code. In Column 3, in accordance with Subpart CC, identify whether or not your waste contains >500 ppmw VOC (YES or NO). In Column 4, enter the appropriate Subcategory key # from Table - 4, If applicable, and also enter "Debris" in Column 4 if the waste is debris that will be treated using one of the alternative treatment technologies provided by 26845. In Column 5, reference the appropriate Waste Management paragraph(s) from Table -3. In Column 6, enter the Reference Number(s) from Table - 1 for all regulated constituents associated with Subpart CC VOC's, F001-F005, F039, D001-D043. If the waste is a California List waste, complete the boxes below and identify the Reference Number(s) of the appropriate California List constituent(s) identified in Table -2.

MANIFES		2. NWW or WW	3. SUBPART CC YES/NO	4. SUBCATEGORY	5. WASTE MANAGEMENT	6. REGULATED CONSTITUENTS
1	D008	NWW	NO			

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature

Title

Print Name

- .

### Waste Express, Inc.

### Waste Acceptance Notification

Dear STATE OF OKLAHOMA DEPARTMENT CENTRAL:

STATE OF OKLAHOMA DEPARTMENT CENTR. 309 N. 14TH ST PERRY, OK 73077

06-OCT-11

Waste Express has reviewed your Waste Profile Sheets:

AES-57178 LEAD PAINT CHIPS AND DEBRIS

And approves the referenced waste(s) for management at our Kansas City Facility.

This letter is to notify you that Waste Express has the Authorizations and permits for the waste(s) described on the referenced Waste Profile Sheets(s) and is providing herein that management of such waste(s) delivered to Waste Express, will be in accordance with all applicable federal, state, and local laws and regulations.

Thank you for the opportunity to be of service, Please contact us if you have any questions.

Respectfully yours,

Paul Shields Office Manager





Page 1 of 5





Page 2 of 5





Page 3 of 5





Page 4 of 5





Page 5 of 5



\$135 Home of Paul (Invol.) Chickma Cay, OX 75180 / (603) 766-7272 / Fau (409) 756-5683

### Environmental Chemistry Analysis Report

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2024-19

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Enercan Sarvices, Inc.

6525 M. Meridian, Suite 400

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Project:

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Location:

Pauhusha, OK

Project No.: N/A

AIHA IC: 101352

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003	} \$ <b>√-07-03-</b> R4	Wipe	Land	<16.0	15	ug/sq. Ft.	12/12/11 15:30	W EFA 7420 (1)
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013	FW-B-04-R4	Wipe	Leud	<16.0	15	eg/sq. Ft.	12/12/11 15:30	W EPA 7420(1)

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This report opplies only to the cumbads or procedures indicated and to the specific samples tested. It is not indicative of the qualities of applicably identical or similar products or procedures, nor does it represent an onlying assurance progrem unless so notes. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteric. Method desection limits and resultant reporting limits may not it, which for non-ASTM E1792 ways material.

EPA Nacified 7420 (1) = EPA 600/91-93/200 Preparation Modified, EPA 7420 Analysis Modified

EPA Methos 7082 (2) = EPA 600/R-93/200 Preparation Medified, EPA 70%2 Analysis Modified



Ec. 19 Houtes / Peric Laine / Cittariano City, CX 79120 / (466) 765-7872 / Pax (466) 760-6663

### Environmental Chemistry Analysis Report

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13/09/11

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Addison

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Date of Meyern

12/12/2011

AIHA ID: 101352

Carrie

Enurcon Services, Inc.

6525 N. Meridian, Suite 400

Oklahona, City, OK 73116

Acre. No.:

A51.5

**Nawhuska Armory** 

Project: Logation

Pawhusia, OK

Project No.: N/A

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019	PW-E-01-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	% EPA 7420 (1)
020	PW-E-02-R4	Wipe	Lowing	<16.0	16	ug/sq. Fi.	12/12/11 15:30	W EPA 7420 (1)
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023	PW-F-01-R4	Wipe	Lucd	416.9	16	vg/sq. Fr.	12/12/11 15:30	
024	FW-F-02-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7620(1)
625	PW-F-03-R4	Wipo	Lead	<16.0	16	12/24. Ft.	12/12/11 15:30	W EPA 7426 (I)
025	PW-F-04-R4	Wipe	isti	<16.0	16	ag/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
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This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently idealical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

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EPA ideshed  $7420\,(1)$  = EPA 660/R-93/200 Prependion bloodled. EPA 7420 Analysis Modified

EPA Metaod 7002 (2) = EPA 600/R-93/200 Proporation Modified, EPA 7082 Analysis Modified



2323 Humagu Main, Danid / Galahama Cay, CK 78120 / (505) 725-7272 / Fiz. (405) 755-7252

### Environmental Chemistry Analysis Report

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202449

mile Hamilton

12/09/11

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Shorie Lawwich

Marc Emagalous

Pince Sungical

Assignit

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12/13/2011

Chare

Snorcon Services, Lie,

5525 N. Warklan, Suite 400

Oklahoma City, OK 73116

Acct No.:

Alr.5

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Pawlessin, OK

Project ries

AHAID: 101530

The STA	Client ID	h.airk	Parameter	Ivania.	Linds	Units	Dose/Time Analyzad	Rection
029	PWS-C-01-	Vipe	Lead	310.0	16	ug/sq. Fi.	(2/12/11 15:30	W EPA 7420 (1)
030	PWS-D-01-	Wipe	Land	24.36	16	egisq. Pl.	12/12/11 15:30	% EPA 7420 (1)
071	9W3-E-01- R4	科や	\$,CEĀ	ी 5.0	ÍÒ	e. sq. %.	12/12/11 15:30	W EPA 7420 (1)
932	PWS-F-DI-R	Win	Carl	<\$5.0	36	culty Fr.	12/12/11 15:50	W EPA 7420 (i)

Rebecci Sparks, Analyst

Mose: Sample results have not even corrested for blank values.

This report applies only to the annihids or procedures indicated and to the specific complex rested. It is not indicative of the specifies of apparently identical or similar products or procedures, nor does it represent on ongoing assurance program unless to noted. These reports are for the exclusive was or the client and are not to be reproduced without specific written permission.

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Wipe meacrials must mad ASTest E1792 criteria. Method detection limits and resultant reporting limits may use be called for non-ASTM E1792 wipe. nuieud.

EPA Method 7420 (1) - EPA 660/11-93/209 Preparetion Modified, EPA 7429 Analysis Modified EPA Method 7082 (2) = EPA worlf-93/200 Preparation Modified. EPA 7002 Analysis Modified

### Supplemental Report QAQC Results

QA ID: 3450 Test: Lead

Deter Mann. 12/12/2011 Wips

Lab Number:

202449

Approved By: Date Approved: 12/12/2011

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Authorized Signature:

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### LAND DISPOSAL RESTRICTION AND SUBPART CC WASTE DETERMINATION CERTIFICATION

Generator Name: STATE OF OKLAHOMA DEPARTMENT

**CENTRAL** 

Manifest Doc. #: 001480237FLE

State Manifest #:

8TH RUBEL AVE.

PAWHUSHA, OK 74056

Generator USEPA ID#: OKCSQ1111111

Check this box if using a continuation sheet.

INSTRUCTIONS: In Column 1, identify all USEPA hazardous waste codes that apply to this waste approval/shipment. In Column 2, indicate the appropriate Treatability Group, Non-WasteWater (NWW) or WasteWaster (WW) for each waste code. In Column 3, in accordance with Subpart CC, identify whether or not your waste contains >500 ppmw VOC (YES or NO). In Column 4, enter the appropriate Subcategory key # from Table - 4, If applicable, and also enter "Debris" in Column 4 if the waste is debris that will be treated using one of the alternative treatment technologies provided by 26845. In Column 5, reference the appropriate Waste

Management paragraph(s) from Table -3. In Column 6, enter the Reference Number(s) from Table - 1 for all regulated constituents associated with Subpart CC VOC's, F001-F005, F039, D001-D043. If the waste is a California List waste, complete the boxes below and identify the Reference Number(s) of the appropriate California List constituent(s) identified in Table -2.

MANIFEST	1. WASTE	2. NWW or	3. SUBPART CC	4. SUBCATEGORY	5. WASTE	6. REGULATED
LINE ITEM #	CODE(S)	WW	YES/NO		MANAGEMENT	CONSTITUENTS
1	D008	NWW	NO			

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature _	Don W Sunce	Title _	Pres	
Print Name	9	D. A.	1010019	
Print Name	All Mees	Date _	10/11	

### Waste Express, Inc.

### **Waste Acceptance Notification**

Dear STATE OF OKLAHOMA DEPARTMENT CENTRAL:

STATE OF OKLAHOMA DEPARTMENT CENTR. 8TH RUBEL AVE. PAWHUSHA, OK 74056

06-OCT-11

Waste Express has reviewed your Waste Profile Sheets:

AES-57179 LEAD PAINT CHIPS AND DEBRIS

And approves the referenced waste(s) for management at our Kansas City Facility.

This letter is to notify you that Waste Express has the Authorizations and permits for the waste(s) described on the referenced Waste Profile Sheets(s) and is providing herein that management of such waste(s) delivered to Waste Express, will be in accordance with all applicable federal, state, and local laws and regulations.

Thank you for the opportunity to be of service, Please contact us if you have any questions.

Respectfully yours,

Paul Shields Office Manager

### **CONFIRMATION SAMPLING**

### ARMORY LEAD CONFIRMATION SAMPLING PERRY ARMORY 309 NORTH 14<sup>TH</sup> STREET PERRY, OKLAHOMA

Prepared For: Oklahoma Department of Environmental Quality Land Protection Division 707 N. Robinson Avenue Oklahoma City, OK 73102

April 2, 2012



6525 North Meridian, Suite 400 Oklahoma City, Oklahoma 73116 (405) 722-7693 Fax: (405) 722-7694

Prepared by:

Marshall Branscum Project Manager

Lead-Based Paint Inspector, OKINSR13415

Reviewed by:

Emmett W. Muenker, M.E.

Lead-Based Paint Inspector/Risk Assessor

OKRASR-112605

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### **APPENDICES**

APPENDIX	A - Scope	of Work for	Confirmation	Lead	Sampling
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- APPENDIX B Lead-Based Paint Firm and Individual License
- APPENDIX C Post-Remediation Initial Confirmation Sampling Results and Layouts IFR/Storage Rooms, Drill Floor, and Office Areas
- APPENDIX D Post Remediation Conformation Re-Sample 1 Results and Layouts IFR/Storage Rooms, Drill Floor, and Office Areas
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- APPENDIX F Post Sealant Initial Confirmation Results and Layouts IFR/Storage Rooms
- APPENDIX G Post Sealant Final Confirmation Re-Sample | Results and Layouts IFR

### 1.0 PURPOSE AND SCOPE

This clearance sampling was requested by the Oklahoma Department of Environmental Quality, Land Protection Division, in order to confirm that lead remediation at the Perry Armory, 309 North 14<sup>th</sup> Street, Perry, Oklahoma, had been satisfactorily completed. Enercon was contracted to conduct confirmation wipe samples following remediation using the sampling protocols described in the Scope of Work provided in Appendix A.

### 2.0 BACKGROUND

The State of Oklahoma has determined that a number of armories located throughout the State that are no longer needed are to be transferred to local communities. Prior to these transfers, environmental investigations were conducted by the Oklahoma Department of Environmental Quality to determine if there are any environmental issues associated with these armories. As a result, inspections for lead contamination and lead-based paint have been conducted, resulting in contracts for remediation of lead contamination by private contractors. In order to determine if the contamination has been satisfactorily remediated, following remediation confirmation testing is being done by firms licensed by the State to conduct Lead-Based Paint Inspections and Clearance Tests. These firms are independent of the remediation contractor. The remediation contractor for the Perry Armory was Abatement Systems, Inc., Environmental Safety Contractors, Post Office Box 773, Broken Arrow, OK 74013-0773.

### 3.0 CONFIRMATION PROCEDURES

Confirmation of the adequacy of remediation is done by collecting wipe samples on the floors and/or walls of the armory on a room by room basis using the sampling criteria set forth in the Scope of Work (Appendix A). All wipe samples are collected by an Oklahoma-licensed LBP Inspector or Risk Assessor who is employed by an Oklahoma-licensed Lead-Based Paint Firm. Copies of these licenses are provided in Appendix B. The procedure involves using a floor plan layout of the armory to mark all sample locations and collecting samples using a 12" by 12" template and lead wipes to collect the samples. In the Indoor Firing Range (IFR), the walls, floor and ceiling were gridded using a 3x3 grid for ranges/rooms 50 feet long or less. For ranges longer than 50 feet, the range was divided into two halves, with each half using a 3x3 grid for sampling. For other areas of the armories, single wipe samples were collected from the floor in areas where lead-based paint abatement had been completed. For larger rooms, a 3x3 gridded area was sampled for elevated lead dust levels. Following remediation, confirmation wipe samples were collected. If any sample within

Perry Armory Lead Confirmation Sampling Enercon Services, Inc. a 3x3 grid in an indoor firing range or range storage room exceeded  $200 \,\mu\text{g/ft}^2$ , the entire 3x3 gridded area was re-cleaned and re-tested. Sample locations outside the IFR were collected within ten feet of the doorway for smaller rooms and larger rooms were sampled using a 3x3 grid. The Inspector marked the grid intersections and wipe sample locations with duct tape in preparation for sampling. Procedures for individual wipe samples as outlined for EPA/HUD dust wipe sampling were used for this project.

### 4.0 CONFIRMATION SAMPLING

# 4.1 Results of Initial Confirmation Sampling Following Remediation in the Indoor Firing Range and the Northeast and South IFR Storage Rooms

The initial round of clearance testing was conducted on August 23, 2011, following remediation in the Indoor Firing Range and the two storage rooms associated with the IFR. The IFR was approximately 110 FT long; therefore, it was divided into two 55 FT long 3 x 3 gridded areas for wipe sampling. A total of 30 wipe samples were collected from the walls, floor, and ceiling of the IFR. Seven of the 30 samples collected from the IFR contained lead in excess of 200  $\mu$ g/ft<sup>2</sup>. The northeast and south IFR storage rooms were less than 55 FT in length and therefore, they were not divided into separate areas. A total of 18 wipe samples were collected from the walls, floor, and ceiling of each storage room. Two of the 18 wipe samples collected in the Northeast Storage Room contained lead in excess of 200  $\mu$ g/ft<sup>2</sup>. None of the wipe samples collected in the South Storage Room contained lead in excess of 200  $\mu$ g/ft<sup>2</sup>. Appendix C contains a sketch showing the areas that exceeded the threshold during the initial round of sampling in the IFR and the laboratory report and chain of custody with the Drill Floor and Office Area results for the August 23, 2011, initial round of sampling.

# 4.2 Results of Re-Sample 1 Confirmation Sampling Following Re-cleaning in the Indoor Firing Range and the Northeast IFR Storage Rooms

The areas that failed the initial clearance testing in the IFR and the Northeast IFR Storage Room were re-cleaned and then re-sampled on September 12, 2011. A total of 12 wipe samples were collected in the IFR. Two of the twelve wipe samples collected contained lead in excess 200  $\mu$ g/ft² in the IFR. Two of the three wipe samples collected in the Northeast Storage Room contained lead in excess of 200  $\mu$ g/ft². Appendix D contains sketches showing the areas that exceeded the threshold during Re-Sample 1 in the IFR and Northeast Storage Room and the laboratory report and chain of custody with the Drill Floor and Office Area results for the September 12, 2011, re-sampling.

# 4.3 Results of Re-Sample 2 Confirmation Sampling Following Re-cleaning in the Indoor Firing Range and the Northeast IFR Storage Rooms

The areas that failed the Re-Sample 1 clearance testing in the IFR and the Northeast IFR Storage Room were re-cleaned and then re-sampled on September 20, 2011. A total of six wipe samples were collected in the IFR. Three of the six wipe samples collected contained lead in excess 200  $\mu g/ft^2$  in the IFR. However, these three wipe samples only slightly exceeded the threshold of 200  $\mu g/ft^2$  and therefore, it was determined at that time by Mr. Dustin Davidson, Oklahoma Department of Environmental Quality (ODEQ), that the IFR should be sprayed with a sealant and then re-sampled. Three wipe samples collected in the Northeast Storage Room and none contained lead in excess of 200  $\mu g/ft^2$ . Appendix E contains sketches showing the areas that exceeded the threshold during Re-Sample 2 in the IFR and Northeast Storage Room and the laboratory report and chain of custody with the Drill Floor and Office Area results for the September 20, 2011, re-sampling.

# 4.4 Results of Initial Confirmation Sampling Following Application of a Sealant in the Indoor Firing Range and the Northeast and South IFR Storage Rooms

On October 11, 2011, following application of a sealant to the IFR and the two IFR Storage Rooms, confirmation wipe samples were collected in these areas. Following application of the sealant to the walls, floor, and ceiling, ODEQ recommended collecting only two confirmation wipe samples from each 3x3 grid in the IFR and only one confirmation wipe sample from each 3x3 grid in the IFR Storage Rooms. A total of 20 wipe samples were collected from the IFR, with three exceeding the  $40 \,\mu\text{g/ft}^2$  threshold. A total of 12 wipe samples were collected from the two IFR Storage Rooms, with no samples exceeding the  $40 \,\mu\text{g/ft}^2$  threshold. Appendix F contains sketches showing the areas that exceeded the threshold during Initial Confirmation Sampling following Application of a Sealant in the IFR and Northeast Storage Room and the laboratory report and chain of custody for the October 11, 2011, sampling.

## 4.5 Results of Re-Sample 1 Final Confirmation Sampling Following Re-cleaning and Resealing in the Indoor Firing Range

On October 21, 2011, following re-cleaning and resealing the areas of the IFR that exceeded the 40  $\mu$ g/ft<sup>2</sup> threshold in the IFR, confirmation wipe samples were collected from these areas. A total of three samples were collected, with none exceeding the 40  $\mu$ g/ft<sup>2</sup> threshold. Appendix G contains

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sketches showing the areas that were sampled following re-cleaning and resealing in the IFR and contains the laboratory report and chain of custody for the October 21, 2011, re-sampling.

### 4.6 Results of Initial Confirmation Sampling in the Drill Floor and Office Areas

The initial round of clearance testing was conducted on August 23, 2011, following remediation in the Drill Floor and Office Areas. A total of 51 wipe samples were collected, with 22 exceeding the  $40~\mu g/ft^2$  threshold. A floor plan layout showing the location of the wipe samples is and the laboratory report and chain of custody are found in Appendix C.

### 4.7 Results of Re-Sample 1 Confirmation Sampling in the Drill Floor and Office Areas

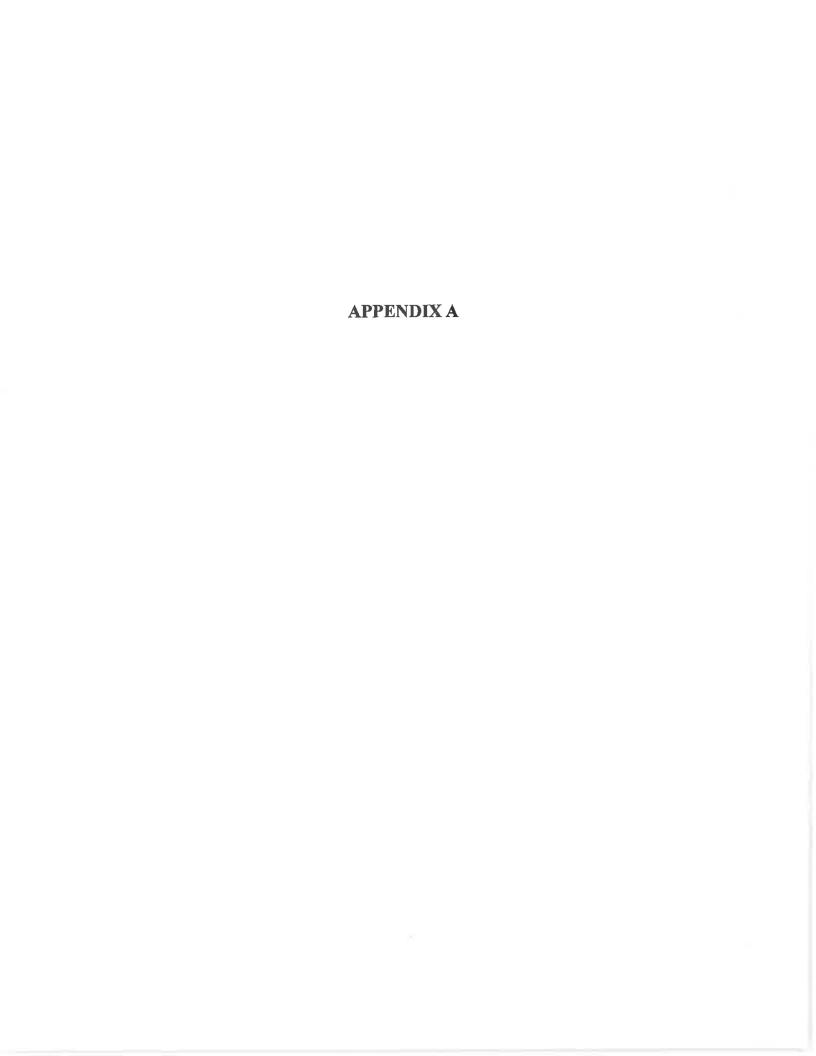
On September 12, 2011, following additional cleaning in the areas that exceeded the threshold, confirmation wipe samples were collected from the areas. A total of 26 wipe samples were collected, with two wipe samples exceeding the  $40 \,\mu\text{g/ft}^2$  threshold. A floor plan layout showing the location of the wipe samples and the laboratory report and chain of custody are found in Appendix D.

### 4.8 Results of Re-Sample 2 Final Confirmation Sampling in the Drill Floor and Office Areas

On September 20, 2011, following additional cleaning in the areas that exceeded the threshold, confirmation wipe samples were collected from the areas. A total of two wipe samples were collected, with no wipe samples exceeding the 40 µg/ft<sup>2</sup> threshold. A floor plan layout showing the location of the wipe samples and the laboratory report and chain of custody are found in Appendix E.

### 5.0 CONCLUSIONS

Based upon the foregoing confirmation sampling, it is concluded that the lead hazard associated with the walls, floor and ceiling in the IFR, and the floors in the Drill Room and Office Areas have been effectively mitigated.



### SCOPE OF WORK

### For Armory Lead Confirmation Sampling

The Department of Environmental Quality will soon be hiring contractors to remediate lead-based paint and lead contaminated dust from former National Guard Armories located in Sulphur, Minco, Mariow, Pawhuska, Perry, and Kingfisher, Oklahoma. Once abatement is complete, confirmation wipe samples will need to be taken on floors in areas where lead-based paint abatement was performed and in rooms that previously tested high for lead dust on floors. Attached is the Confirmation Sampling Instructions (Attachment 1). Below is a detailed list of what will be required at each site.

- Perform each sampling event within five (5) days of notice from remediation contractor.
- Provide DEQ with sampling plan for approval prior to each sampling event. There will be up to five (5) sampling events per armory.
- Travel to the each site up to (5) times to take confirmation wipe samples.
- A total of 250 confirmation wipe samples will be taken per armory.
- A total of 1500 confirmation wipe samples will be taken for this project.
- Samples will be run with a 24 hour turnaround time and results with sample location map will be submitted to DEQ for review.
- Once all sampling is complete at an armory, a Confirmation Sampling Report will be submitted to DEQ for approval.
  - o A total of six (6) Confirmation Sampling Reports shall be submitted.
  - o One report will be submitted for each armory.

### Confirmation Sampling Instructions

### Protocol for Collecting Wipe Samples

- 1. Prepare a rough sketch of the area(s) or room(s), to be wipe sampled.
  - a. Mark all sample locations on map before sample event starts.
  - b. When possible DEQ will supply a ficor plan map with sample locations marked.
- 2. A new set of clean, impervious gloves should be used for each sample to avoid cross contamination of samples.
- 3. Wipe Samples
  - a. If using Ghost Wipes TM, tear open the individually sealed package. Remove the moistened wipe. Unfold the wipe.
  - If using a dry media such as MCE or Whatman TM filter, moisten the filter with distilled or deionized water prior to sampling.
- 4. Place a 12 inch by 12 inch, 1 foot square, template on the area to be wined.
- 5. Apply uniform firm pressure while wiping the area inside the template.
- To insure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentric squares decreasing in size.
- After collecting a sample, fold the filter or wipe inward and place into a container and number it. Note the number at the sample location on the sketch.
- 8. At least one blank filter treated in the same fashion but without wiping, should be submitted to the laboratory with every 10 samples.

### Confirmation Sampling Instructions

### Indoor Firing Range

- To properly sample the IFR, a 3 section by 3 section grid system shall be used. Samples shall not be collected on all one section or end of a grid. A total of 3 samples shall be collected per 3 section by 3 section grid.
  - Each range surface less than 50 feet in length shall be divided into a 3 section by 3 section grid. (Figure 1 and Figure 2)
  - Each range surface more than 50 feet in length shall be divided in half and a 3 section by 3 section grid shall be established on each half. (Pigure 3 and Figure 4)
- 2. If a sample fails, the entire 3 section by 3 section grid shall be re-cleaned and re-sampled.
  - Confirmation samples taken after remediation are considered to have failed if results exceed 200 mg/SF.
  - Confirmation samples taken after sealing are considered to have failed if results exceed 40 up/SF.
- 3. If more than ten (10) confirmation samples fail, the entire IFR shall be re-cleaned.

4. DEQ reserves the right to take additional confirmation samples.

### Areas Where Lead-Based Paint Abatement Has Been Performed

- 1. One (1) confirmation wipe sample shall be taken on the floor within ten feet of the abatement area.
  - a. If a confirmation sample for lead dust is located within ten feet of the lead-based paint abatement area, this sample can count as both the lead-based paint and lead dust confirmation sample (See below for details on lead dust confirmation sampling).
- 2. Sample results in excess of 40 ng/SF are considered to have failed. If a sample result fails, the area shall be re-cleaned and re-sampled.

### Areas Outside IFR with Elevated Lead Dust on Floor

- 1. A 3 section by 3 section grid system shall be used. Samples shall not be collected on all one section or end of a grid. A total of 3 samples shall be collected per 3 section by 3 section grid.
  - Each floor surface less than 50 fest in length shall be divided into a 3 section by 3 section grid. (Figure 1 and Figure 2)
  - Each floor surface more than 50 feet in length shall be divided in half and a 3 section by 3 section grid shall be established on each half. (Figure 3 and Figure 4)
- Sample results in excess of 40 ug/SF are considered to have failed. If a sample fails, the entire 3 section by 3 section grid shall be re-cleaned and re-sampled.
- 3. DEQ reserves the right to take additional confirmation samples.

Figure 1. ACCEPTABLE FOR SURFACES LESS THAN 50 FEET

Wipe Sample	_	
	Wipe Sample	
		Wipa Sample

Figure 2. NOT ACCEPTABLE FOR SURFACES LESS THAN 50 FEET

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Wipe Sample		
Wipa Sampla		

Figure 3. ACCEPTABLE FOR SURFACES GREATER THAN 50 FEET

Wipe Sample					Wips Sample
	Wipe Sample		Wipe Sample		
		Wipe Sample		Wipe Sample	

Surface Center

Figure 4. NOT ACCEPTABLE FOR SURFACES GREATER THAN 50 FEET

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# Department of Environmental Quality

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## INSPECTOR/RISK ASSESSOR

Certification #: OKRASR11260

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Expires on: 3/31/2012

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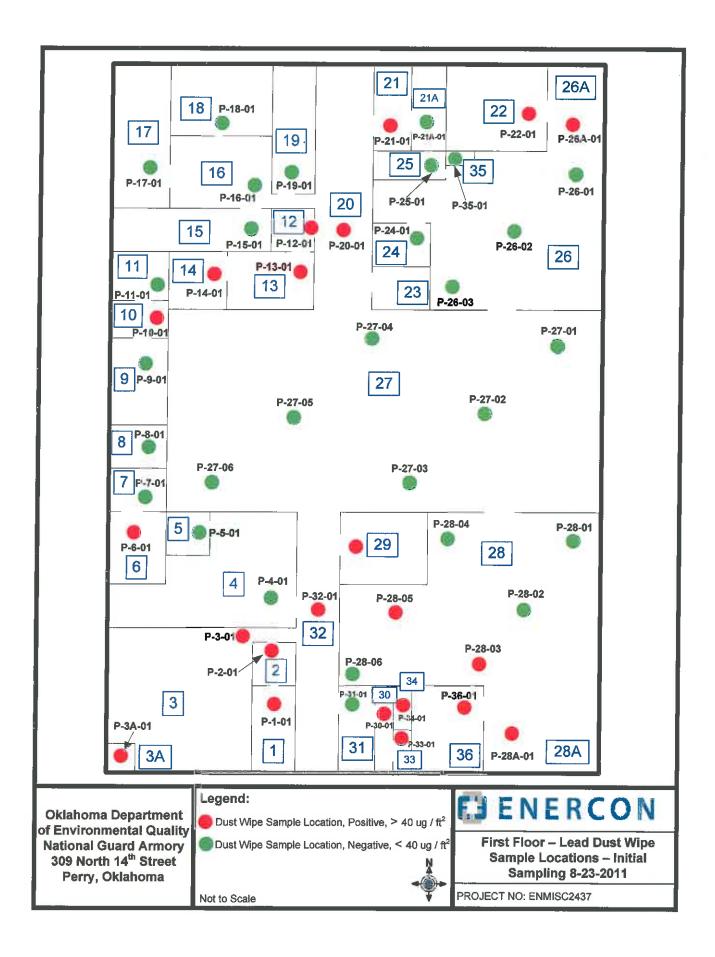
Division Director Air Quality Division

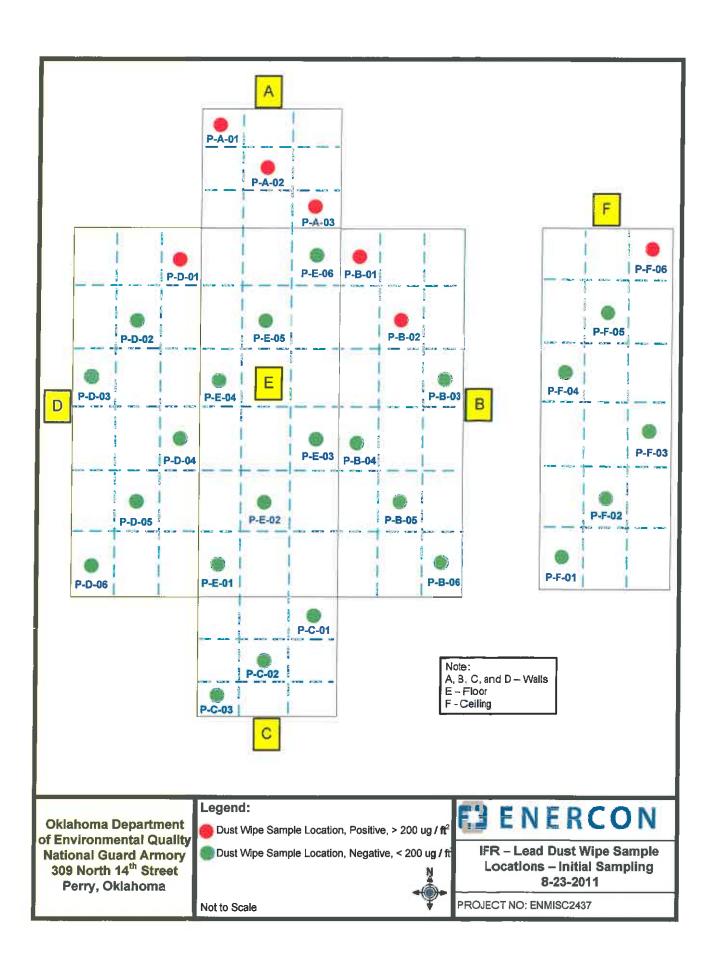


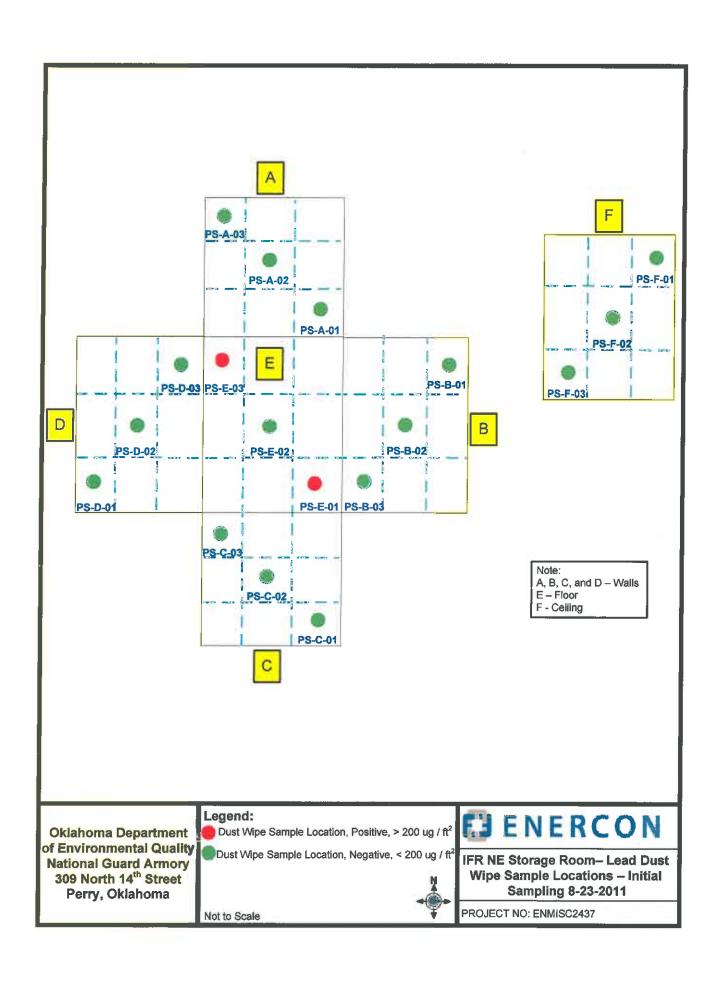
Light Manager Environmental Programs Manager

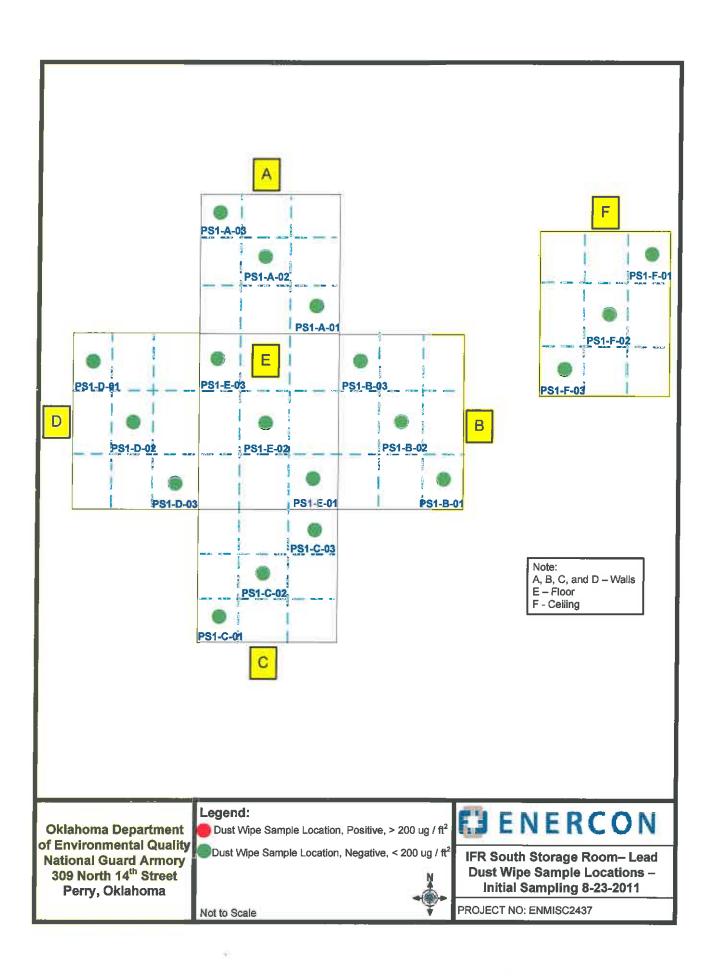
Air Quality Division













### Environmental Chemistry Analysis Report

QuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

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Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Result	Reporting S Limits	Units	Date/Time Analyzed	Method
001	P-1-01	Wipe	Lead	45.5	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
002	P-2-01	Wipe	Lead	103	16	ug/sq. Ft,	08/24/11 17:00	W EPA 7420 (1)
003	P-3-01	Wipe	Lead	163	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420(1)
004	P-3A-01	Wipe	Lead	1,440	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
005	P-4-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
006	P-5-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
007	P-6-01	Wipe	Lead	58.6	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
800	P-7-01	Wipe	Lead	27.9	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
009	P-8-01	Wipe	Lead	20.8	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
010	P-9-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
011	P-10-01	Wipe	Lead	43.5	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
012	P-11-01	Wipe	Lead	19.8	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
013	P-12-01	Wipe	Lead	43.5	-16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
014	P-13-01	Wipe	Lead	96.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
015	P-14-01	Wipe	Lead	52.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
016	P-15-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (I)
017	P-16-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

ВМ

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM					Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
								25
018	P-17-01	Wipe	Lead	17.1	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
019	P-18-01	Wipe	Lead	33.1	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
020	P-19-01	Wipe	Lead	24.1	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
021	P-20-01	Wipe	Lead	51.6	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420(1)
022	P-21-01	Wipe	Lead	49.1	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
023	P-21A-01	Wipe	Lead	18.2	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
024	P-22-01	Wipe	Lead	63.7	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
025	P-24-01	Wipe	Lead	<16.0	16	ug/sq. Ft,	08/24/11 17:00	W EPA 7420 (1)
026	P-25-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
027	P-26-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
028	P-26-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
029	P-26-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
030	P-26A-01	Wipe	Lead	45.8	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
031	P-27-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
032	P-27-02	Wipe	Lead	29.4	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
033	P-27-03	Wipe	Lead	16.6	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
034	P-27-04	Wipe	Lead	16.9	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



### **Environmental Chemistry Analysis Report**

OuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

ВМ

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	P-27-05	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
036	P-27-26	Wipe	Lead	38.1	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
037	P-28-01	Wipe	Lead	19.3	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
038	P-28-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
039	P-28-03	Wipe	Lead	44.8	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
040	P-28-04	Wipe	Lead	20.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
041	P-28-05	Wipe	Lead	75.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
042	P-28-06	Wipe	Lead	39.2	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
043	P-28A-01	Wipe	Lead	47.9	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
044	P-29-01	Wipe	Lead	71.8	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
045	P-30-01	Wipe	Lead	292	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
046	P-31-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
047	P-32-01	Wipe	Lead	51.6	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
048	P-33-01	Wipe	Lead	185	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
049	P-34-01	Wipe	Lead	96.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
050	P-35-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
051	P-36-01	Wipe	Lead	47.9	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

**BM** 

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
052	P-A-01	Wipe	Lead	1,820	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
053	P-A-02	Wipe	Lead	1,070	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
054	P-A-03	Wipe	Lead	15,700	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
055	P-B-01	Wipe	Lead	2,330	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
056	P-B-02	Wipe	Lead	960	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
057	P-B-03	Wipe	Lead	111	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
058	P-B-04	Wipe	Lead	45,3	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
059	P-B-05	Wipe	Lead	34.2	16	ug/sq. Ft.	08/24/11 17:00	W EPA 7420 (1)
060	P-B-06	Wipe	Lead	36.3	16	ug/sq. Ft.	08/24/11_17:00	W EPA 7420 (1)
061	P-C-01	Wipe	Lead	45.9	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
062	P-C-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
063	P-C-03	Wipe	Lead	27.7	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
064	P-D-01	Wipe	Lead	233	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
065	P-D-02	Wipe	Lead	59.3	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
066	P-D-03	Wipe	Lead	43.9	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
067	P-D-04	Wipe	Lead	31.3	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
068	P-D-05	Wipe	Lead	97.3	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



### Environmental Chemistry Analysis Report

QuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
069	P-D-06	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
070	P-E-01	Wipe	Lead	38.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
071	P-E-02	Wipe	Lead	45.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
072	P-E-03	Wipe	Lead	49.1	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
073	P-E-04	Wipe	Lead	79.8	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
074	P-E-05	Wipe	Lead	140	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
075	P-E-06	Wipe	Lead	38.6	16	ug/sq. Ft,	08/25/11 13:30	W EPA 7420 (1)
076	P-F-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
077	P-F-02	Wipe	Lead	<16.0	-16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
078	P-F-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
079	P-F-04	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
080	P-F-05	Wipe	Lead	29.1	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
081	P-F-06	Wipe	Lead	666	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
082	PS-A-01	Wipe	Lead	53.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420(1)
083	PS-A-02	Wipe	Lead	60.9	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
084	PS-A-03	Wipe	Lead	52.5	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
085	PS-B-01	Wipe	Lead	34.1	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
							<b>y</b>	2.002.00
086	PS-B-02	Wipe	Lead	29.5	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
087	PS-B-03	Wipe	Lead	33.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
880	PS-C-01	Wipe	Lead	39.1	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
089	PS-C-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
090	PS-C-03	Wipe	Lead	26.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420(1)
091	PS-D-01	Wipe	Lead	27.8	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
092	PS-D-02	Wipe	Lead	59.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
093	PS-D-03	Wipe	Lead	21.2	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
094	PS-E-01	Wipe	Lead	416	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
095	PS-E-02	Wipe	Lead	151	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
096	PS-E-03	Wipe	Lead	337	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
097	PS-F-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	.08/25/11 13:30	W EPA 7420 (1)
098	PS-F-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
099	PS-F-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
100	PS1-A-01	Wipe	Lead	24.3	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
101	PS1-A-02	Wipe	Lead	45,1	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
102	PS1-A-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



### Environmental Chemistry Analysis Report

**OuanTEM Set ID:** 

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
103	PS1-B-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
104	P\$1-B-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
105	PS1-B-03	Wipe	Lead	20.4	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
106	PS1-C-01	Wipe	Lead	21.7	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
107	PS1-C-02	Wipe	Lead	62.3	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
108	PS1-C-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
109	PS1-D-01	Wipe	Lead	17.5	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
110	PS1-D-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
111	PS1-D-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
112	PS1-E-01	Wipe	Lead	69.5	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
113	PS1-E-02	Wipe	Lead	74.4	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
114	PS1-E-03	Wipe	Lead	84.5	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
115	PS1-F-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
116	PS1-F-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/25/11 13:30	W EPA 7420 (1)
117	PS1-F-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	-08/25/11 13:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified: EPA 7420 Analysis Modified



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

199049

Date Received:

08/24/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

8/25/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry National Guard Armory

Location:

309 North 14th Street

Project No.:

Perry, OK

QuanTEM

ID

Client ID

Matrix

Parameter

Reporting Limits

Units

Date/Time Analyzed

Method

Authorized Signature:

Results

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

### Supplemental Report QAQC Results

QA ID: Test:

9114 Lead Date:

8/24/2011

Matrix: Wipe

Lab Number:

199049

Approved By: Benton Miller Date Approved: 8/24/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit
ccv	4.5	4.5	5.5
FCV	4.5	4.6	5.5
ICV	0.8	1	1.2
RLVS	0.256	0.351	0.384

### **Duplicate Data:**

### **Recovery Data:**

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.449	5.272	96.7	5.282	96.9	0.2
MS-W1	0.000	5.481	5.090	92.9	5.051	92.1	0.8
MS-W3	0.000	5.427	4.913	90.5	5.051	93.1	2.8

### **Supplemental Report QAQC** Results

QA ID: Test:

9118 Lead

Date:

8/25/2011

Wipe Matrix:

Lab Number:

199049

Approved By:

Benton Miller Date Approved: 8/25/2011

Notes:

Blank Data:

Type of Blank	Blank Value
ICB	0
FCB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5,5
FCV	4.5	4.5	5.5
ICV	0.8	1.1	1.2
RLVS	0.256	0.318	0.384

### **Duplicate Data:**

### **Recovery Data:**

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W5	0.000	5.438	5.529	101.7	5.457	100.4	1.3
MS-W4	0.000	5.449	5.341	98.0	5.237	96.1	2.0
MS-W3	0.000	5.460	5.112	93.6	5.237	95.9	2.4
MS-W2	0.000	5.373	5.159	96.0	5.068	94.3	1.8
MS-W1	0.000	5.405	4.814	89.1	5.068	93.8	5.1

Authorized Signature:

Benton Miller, Analyst

2033 Haritage Park Drive, Oklehoma City, OK 73120-7502 (800) 522-1650 (405) 765-7272 Far: (405) 755-2058 weverquentem.com

P	0
	S.
	J
	g.

Lab No. 199049 THE BEK SET LAB (SEE CO.)

Project Name: Perry Mobiling Guard Perey, OK Project Number: Acct. Company Name: ENECON Services, INC. Project Location: 309 North 14th Street

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% 3M Hdd

14%2C

Units Requested

Amelyala

Sample Description

Sample Number

-34-01

10-4-01

10-9-10-5-

2120

10-1-10-8-10-6-10-01-10-11--12-01

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12

10-2--3-01

10-1-0

LEGAL DOCU Please Print L		TURNAROUND	Same Day	7 24 Hour	3-Dey	5-day	
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199049 Lab No.

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Perry National Gua Project Name:

Acct #

14th Street

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Project Location: 305

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Project Number.

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8-24-4 3/13 10571 Saturday FedEx Shipping - CALL TO SCHEDULE Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oldshoms City, OK 73105-8517 Mark Package HOLD FOR SATURDAY PICKUP Mad UK. Benson 3.2411 /2:50pm

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2033 Herhage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1680 (405) 755-7272 Far: (405) 755-2056 ware.quentoes.com

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Please Print Legibly LEGAL DOCUMENT CONTACT BIFORMATION STORSCAM TURNAROUND TIME port Results VIA (CHOOSE ONE): 722-7653 " Marshall CHAPTEM WebSite Sarme Day A 24 Hour 300 3-day Percy Amery C - Surface / Dust Wipes O - Bult Misselleneous F - Other (SPECIFY) Sample Metabo Terry, OK E - Air Connetto B - Paint Chips A - Sol ساؤ ر جس Project Number: nā \ on: Jy: Project Name: ng / set fi 1/ Oku Ohi/ Oku % WA Units Rega Mdd Analysis Acet # **9d** 4 14/1/2 Sample Description 301 New 14th Street Company Name: Enel Con Services Sample Number P-31-01 10-35-01 -03 -02 90-P-33-61 -34-0 79--35-01 10-98--03 -0d 50 10-8-01 0-4-0 Project Location: 智湯 क्रिक्ट 5 BBB য

Saturday FedEx Shipping - CALL TO SCHEDULE. Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oktahama City, OK 73105-8517 Merk Package HOLD FOR SATURDAY PICKUP\*

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8-24-4 1/23 12:52-14 May 11, Burk 7-29-11

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Seturoray Festex Shipping - CALL TO SCHEDULE. Use this actives for Seturolay FedEx only: 4220 N. Serta Fe Ave., Oktahoms City, OK 73105-8517 Merk Pickage THOLD FOR SATURDAY PICKLIP

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2033 Heritage Park Drive, Oktehorna City, OK 73120-7502 (880) 622-1660 (405) 765-7272 Fer: (405) 755-2058

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Propost Name: Perry Mathenal Guard

Project Number: Units Segmented Analysis 301 Project Location:

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Saturday FedEx Shipping - CALL TO SCHEDULE
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2033 Heritage Park Drive, Oktahoma City, OK 73120-7502 (800) 822-4880 (405) 745-7272 Fer: (405) 755-2058 were quantiem com

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Propert Name: Perry OK Nothing Buged Project Number: **Units Requested** Assetyreb Acct # 145 Steet Company Name: Entron 309 N. Project Location:

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2033 Heritage Park Drive, Oklahoma City, OK 73126-7502 (800) 622-4650 (405) 755-7272 Fac (405) 755-2058

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www.quantem.com

Proposi Name: Perry Hatropal Green Housey

Project Number.

Acct #

14th Stuet

Project Location: 307 W.

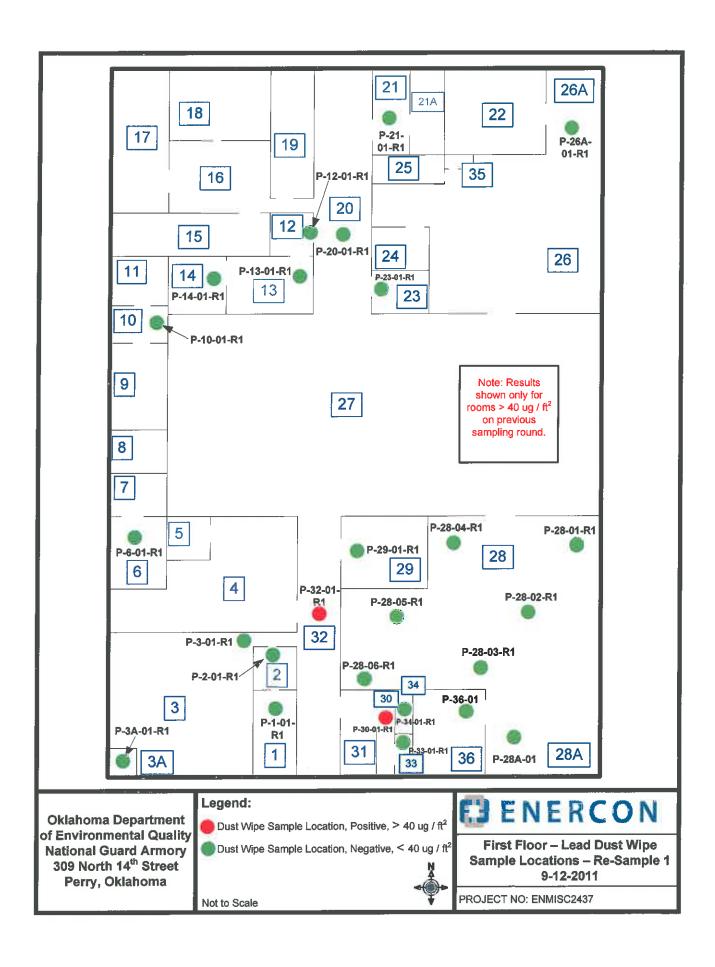
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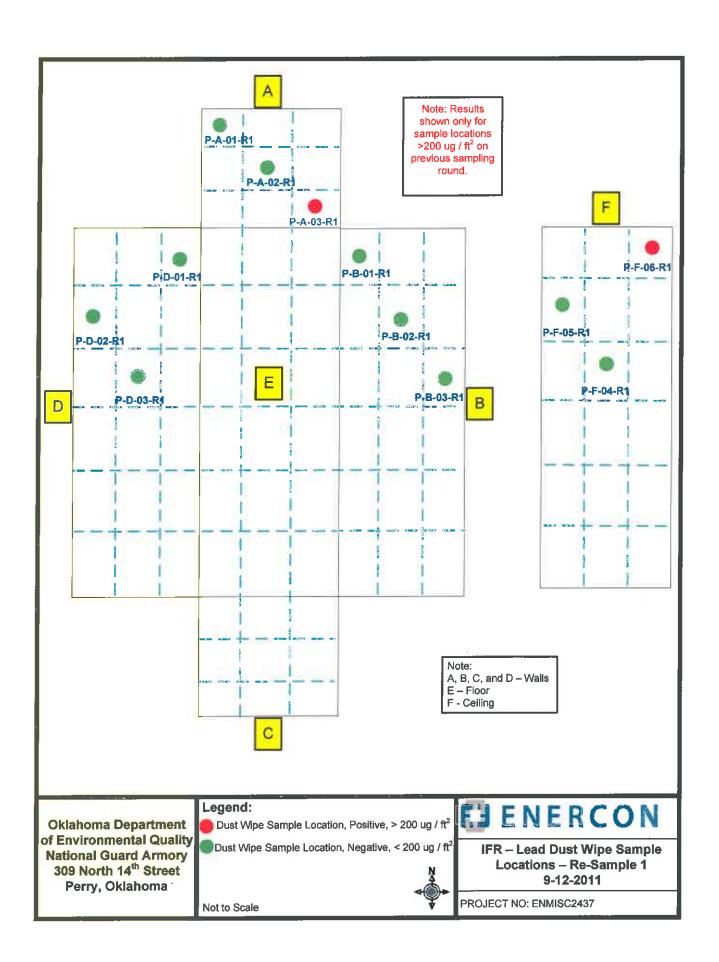
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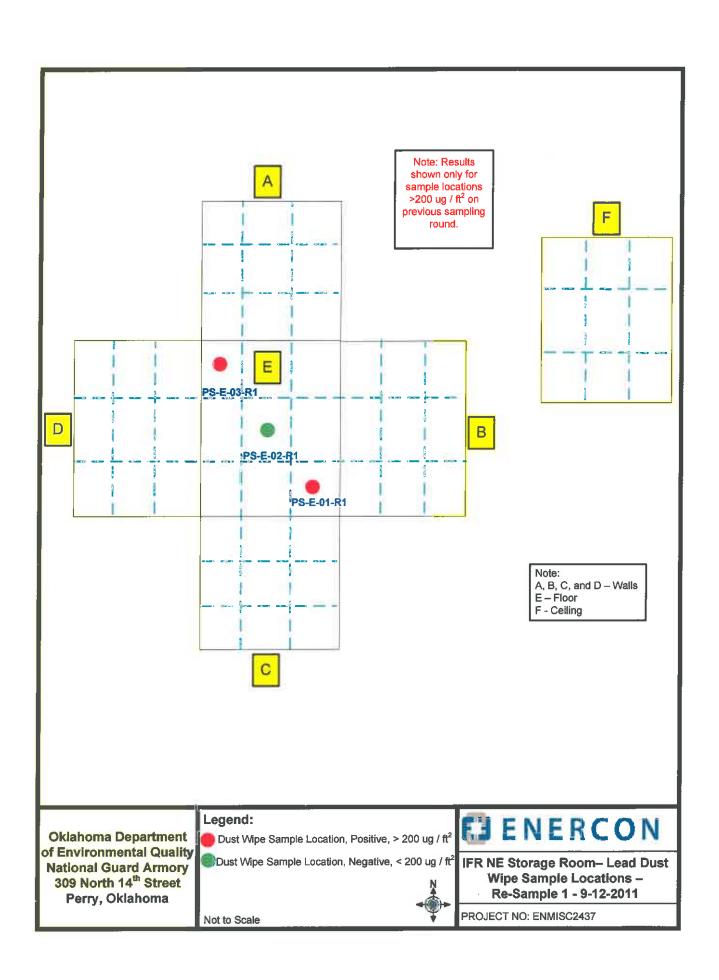
Setunday FedEx Shipping - CALL TO SCHEDULE. Use this address for Saturday FedEx only: 4220 N. Sonta Fe Ave.. Oxishoma City, OK 73105-8517 Mark Package HOLD FOR SATURDAY PICKUP\*

Revision: May 2906

### APPENDIX D









### Environmental Chemistry Analysis Report

QuanTEM Set ID:

199691

Date Received:

09/12/11

Received By:

Leigh Armstrong

Date Sampled:

Time Sampled:

f mie Sambre

Analyst:

Date of Report:

AIHA ID: 101352

RS

9/13/2011

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Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry Armory

Location:

309 North 14th Street, Perry, OK

Project No.:

ENMISC 2437

QuanTEM ID	c	lient ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
100	P	1-01 <b>-</b> R1	Wipe	Lead	35.9	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
002	Р	2-01-R1	Wipe	Lead	20.2	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
003	P.	3-01-R1	Wipe	Lead	37.5	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
004		8A-01-R1	Wipe	Lead	35.8	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
005	_ [	-6-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
006	- 1	10-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
007	- 1	12-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
008	- 1	13-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
009	- 1	14-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
010	1	20-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
011		21-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
012		23-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
013		6A-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
014	1	28-01-R1	Wipe	Lead	39.4	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
015	- 1	28-02-R1	Wipe	Lead	31.6	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (I)
016		28-03-RI	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
017	i	28-04-R1	Wipe	Lead	19.6	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

199691

Date Received:

09/12/11

Received By:

Leigh Armstrong

Date Sampled:

Time Sampled:

Analyst:

Date of Report:

AIHA ID: 101352

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034

9/13/2011

RS

Acct. No.:

Client:

A845

Project:

Perry Armory

Location:

309 North 14th Street, Perry, OK

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project No.:

ENMISC 2437

ug/sq. Ft. 09/13/11 16:00

ug/sq. Ft. 09/13/11 16:00

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QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
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018	P-28-05-R1	Wipe	Lead	16.1	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
019	P-28-06-R1	Wipe	Lead	23.1	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
020	P-29-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420(1)
021	P-28A-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
021	P-30-01-R1	Wipe	Lead	94.6	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
022	P-32-01-R1	Wipe	Lead	45.5	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
023	P-33-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
=	P-34-01-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
025	1	•	Lead	<16.0	16	ug/sq. Ft.	_	W EPA 7420 (1)
026	P 36-01-R1	Wipe		36.8	16	ug/sq. Ft.		W EPA 7420 (1)
027	P-A-01-R1	Wipe	Lead			-		W EPA 7420 (1)
028	P-A-02-R1	Wipe	Lead	24.1	16	ug/sq. Ft.		
029	P-A-03-R1	Wipe	Lead	421	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

P-A-03-R1

P-B-01-R1

P-B-02-R1

P-B-03-R1

P-D-01-R1

P-D-02-R1

Wipe

Wipe

Wipe

Wipe

Wipe

Wipe

Lead

Lead

Lead

Lead

Lead

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

52.4

<16.0

83.2

<16.0

26.1

16

16

16

16

16

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified

W EPA 7420 (1)

W EPA 7420 (1)

W EPA 7420 (1)

W EPA 7420 (1)

W EPA 7420 (1)



### Environmental Chemistry Analysis Report

**OuanTEM Set ID:** 

199691

Date Received:

09/12/11

Received By:

Leigh Armstrong

**Date Sampled:** 

Time Sampled:

Date of Report:

Analyst:

RS

9/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perty Armory

Location:

309 North 14th Street, Perry, OK

Project No.:

**ENMISC 2437** 

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	P-iD-03-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
036	P-F-04-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
037	P-F-05-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
	P-F-06-R1	Wipe	Lead	432	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)
038		Wipe	Lead	269	16	ug/sa. Ft.	09/13/11 16:00	W EPA 7420 (1)
039	PS-E-01-R1	•						W EPA 7420 (1)
040	PS-E-02-R1	Wipe	Lead	61.0	16			• •
041	PS-E-03-R1	Wipe	Lead	405	16	ug/sq. Ft.	09/13/11 16:00	W EPA 7420 (1)

Authorized Signature:

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified

### Supplemental Report QAQC Results

QA ID: Test: 9192

Lead

Date:

9/13/2011

Matrix: Wipe

Lab Number:

199691

Approved By:

Rebecca Sparks

Date Approved: 9/13/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	
ICB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit		
FCV	4.5	4.5	5.5		
CCV	4.5	4.9	5.5		
ICV	0.8	0.9	1.2		
RLVS	0.256	0.382	0.384		

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD	
MS-W1	0,000	5.427	4.821	88.8	4.811	88.6	0.2	
MS-W2	0.000	5.394	4.739	87.9	4.845	89.8	2.2	
MS-W3	0.000	5.449	4.769	87.5	4.617	84.7	3.2	

Authorized Signature:\_

Rebecca Sparks, Analyst

2033 Haritage Part Drive, Oktahoma City, OK 73120-7502 (908) 822-1659 (405) 755-7272 Farc (405) 755-2059

STOCKEL PARTICIONE CARRIED

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900	

Lab No. 199691

Company Name: Englison Services, Inc. Acost. Project Project Location: 301 North 14th Steet, Percy, OK

Project Nume: Perry Amons

Project Number: EUM ESC 2437

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2033 Heritage Part Drive, Oktahoma City, OK 73120-7502 (900) 822-1666 (405) 705-7272 Fer: (405) 765-2066

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Perct Armory

Project Number: EUMISC 2437 Project Name:

April #

Company Name: ENVION Selligs, INC

148 Stut

Project Location: 309 N.

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Seturday Fedex Shipping - CALL TO SCHEDINE. Use this address for Saturday FodEx only: 4220 N. Seria Fe Ave., Cidahone City, OK 73105-8517 Mark Package HOLD FOR SATURDAY PICKUP

Persion: Ney 2906

2033 Haringe Park Drive, Oktoborne City, OK 73129-7502 (898) 822-4656 (405) 756-7272 Fax: (405) 765-2036

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Project Nome: KUN TIMOTY

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company warnes Energen Solvites, Inc

Project Location:

Project Number: ENMISC2437

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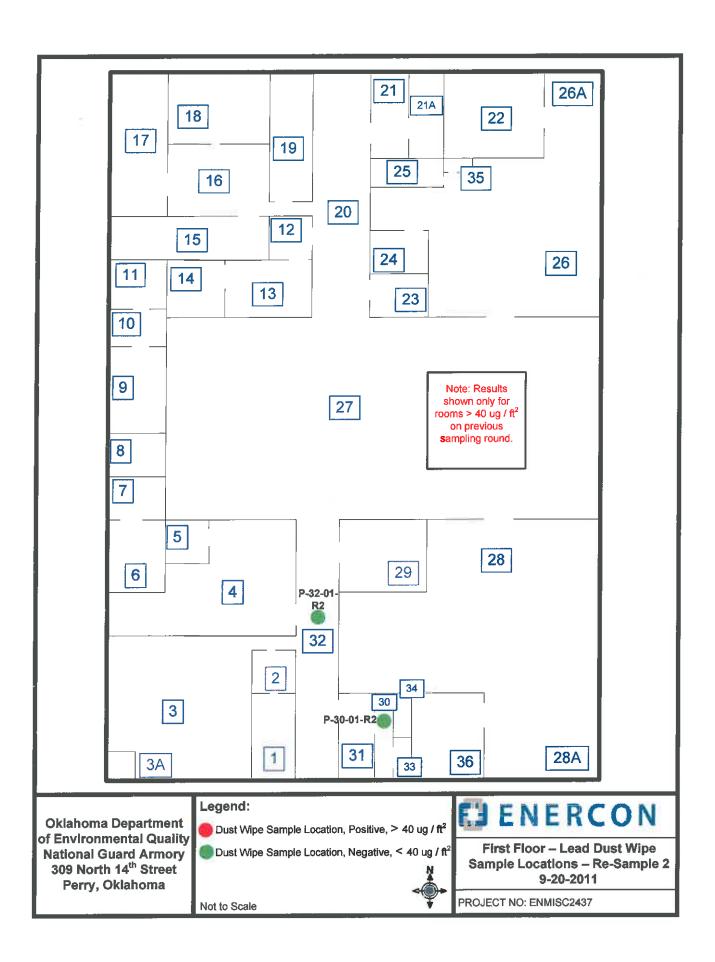
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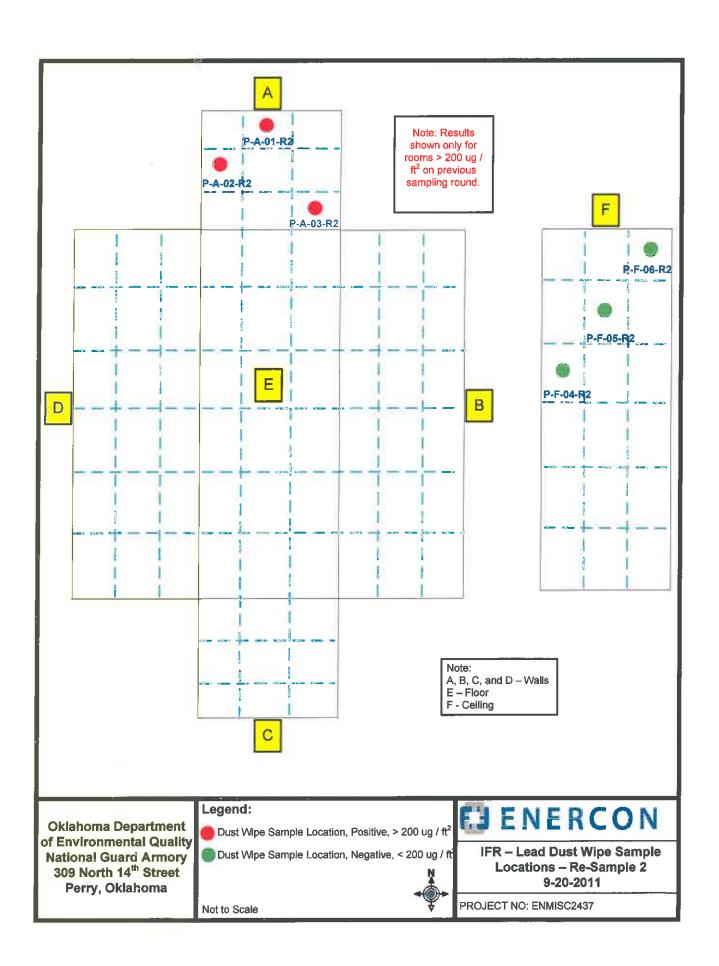
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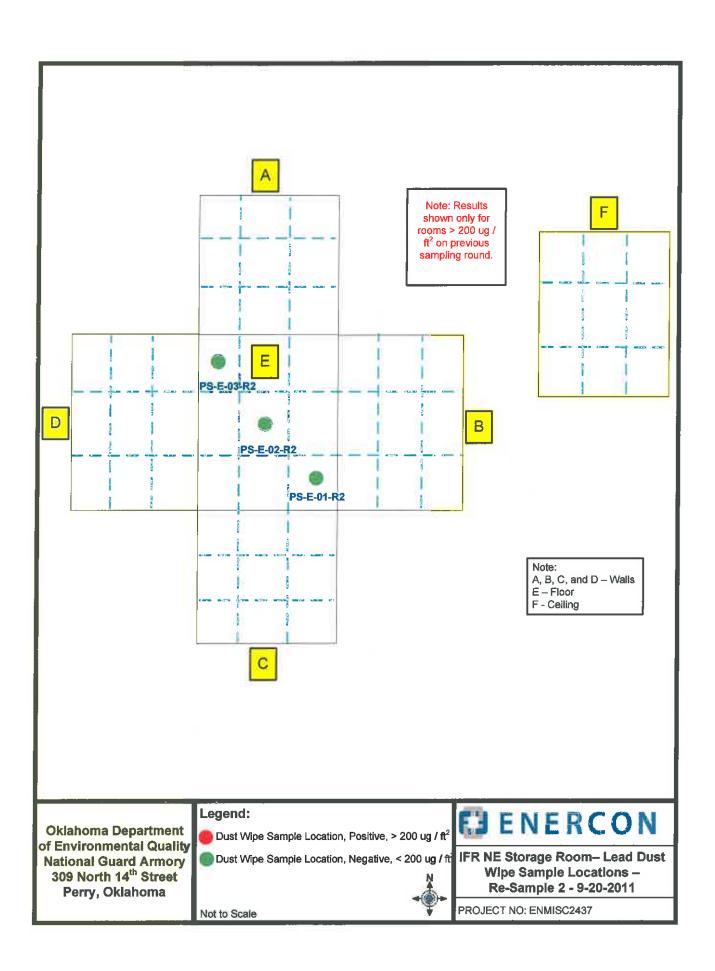
Saturday FedEr Shipping - CALL TO SCHEDULE Use this address for Saturday FedEx enty: 4220 N. Sania Fe Ave., Oktahame City, OK 73105-8517 Mark Pedage 140LD FOR SATURDAY PICKUP

Revesion Noy 2000

# APPENDIX E









## Environmental Chemistry Analysis Report

QuanTEM Set ID:

200033

Date Received:

09/22/11

Received By:

CeCelia Van Eck

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/23/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Репу Агтогу

Location:

Perry, OK

Project No.:

ENMISC 2437

Q	uanTEM					Reporting		Date/Time	
	ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
	001	P-30-01-R2	Wipe	Lead	30.6	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
	002	P-32-01-R2	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
	003	P-A-01-R2	Wipe	Lead	256	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
	004	P-A-02-R2	Wipe	Lead	231	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420(1)
	005	P-A-03-R2	Wipe	Lead	209	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
	006	P-F-04-R2	Wipe	Lead	37.7	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420(1)
	007	P-F-05-R2	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
	800	P-F-06-R2	Wipe	Lead	24.8	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
	009	PS-E-01-R2	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11.13:00	W EPA 7420 (1)
	010	PS-E-02-R2	Wipe	Lead	60.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420(1)
	011	PS-E-03-R2	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420(1)

Authorized Signature:

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

# Supplemental Report QAQC Results

QA ID: Test: 9225

Lead

Date:

9/23/2011

Matrix: Wipe

Lab Number:

200033

Approved By: Rebecca Sparks

Date Approved: 9/23/2011

Notes:

### Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Low Limit Obtained		
ccv	4,5	5.2	5.5	
FCV	4.5	5.2	5.5	
ICV	0.8	1.1	1.2	
RLVS	0.256	0.341	0.384	

### **Duplicate Data:**

### Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-WI	0.000	5.460	5.477	100.3	5.515	101.0	0.7
MS-W2	0.000	5.481	5.732	104.6	5.724	104.4	0.1
MS-W3	0.000	5.449	5.368	98.5	5.841	107.2	8.4

Authorized Signature:

Rebuca Sparks

Rebecca Sparks, Analyst

2053 Herhage Park Drive, Oldehoma Cilly, OK 73120-7502 (860) 822-4680 (406) 705-7272 Ferc (405) 755-2058

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The tax for Lab Use only Lab No.

www.gunchem.com

Project Number: ENMISC 245'

Project Name:

Act #

Company Hame. English SYVIUS, LAL.

Project Location: Pert V.

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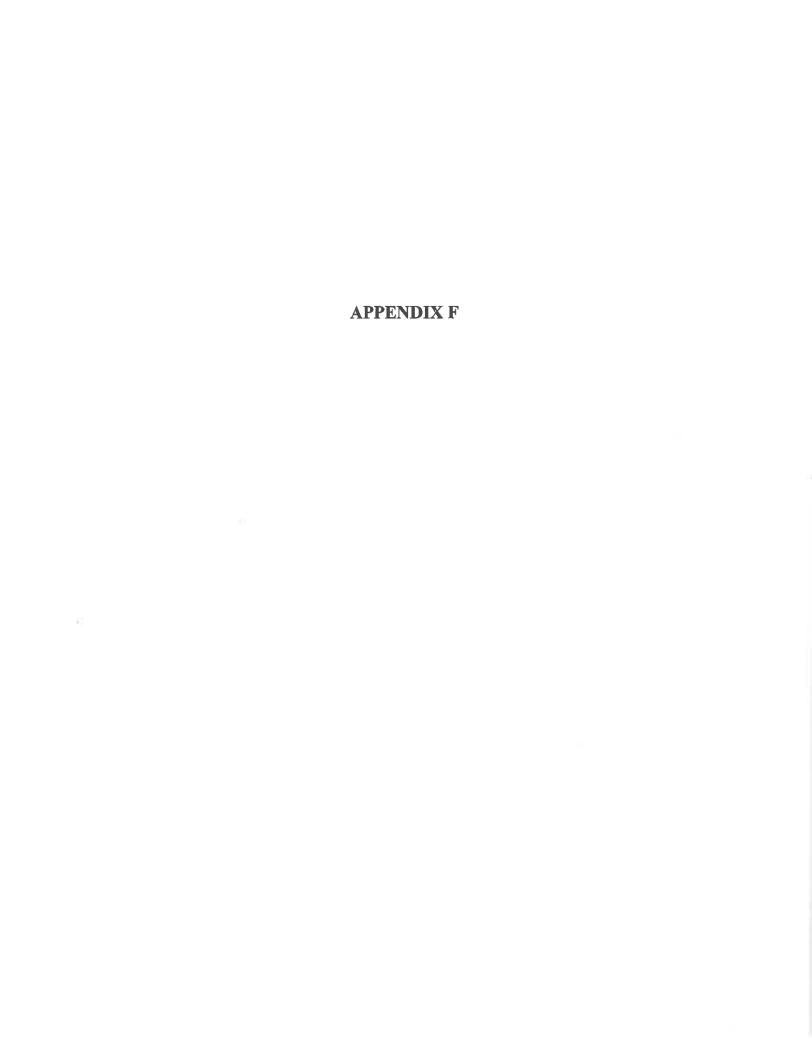
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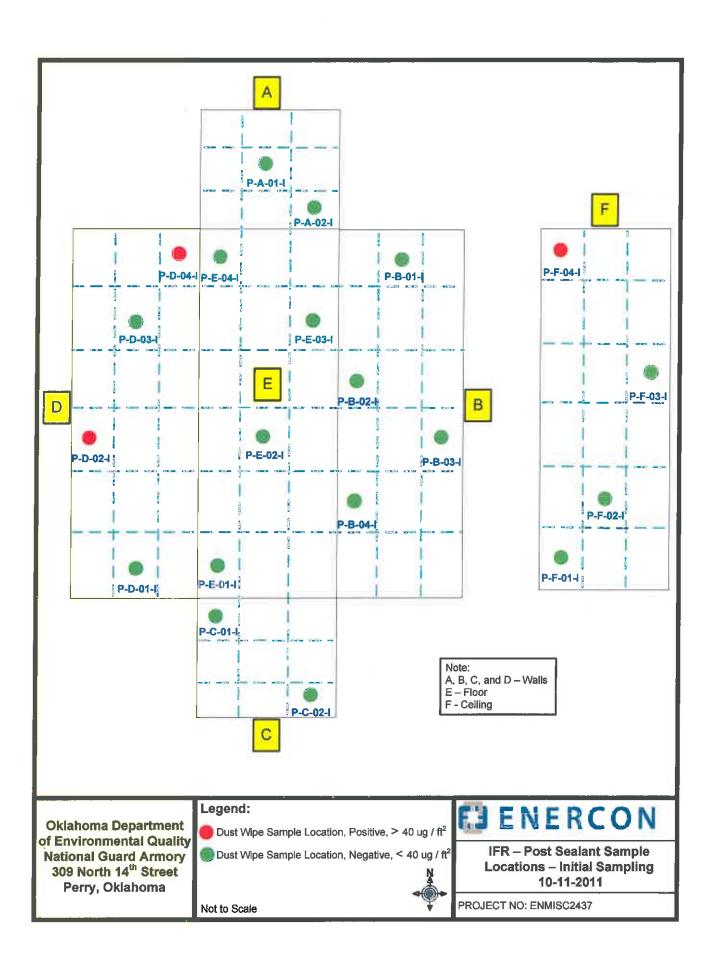
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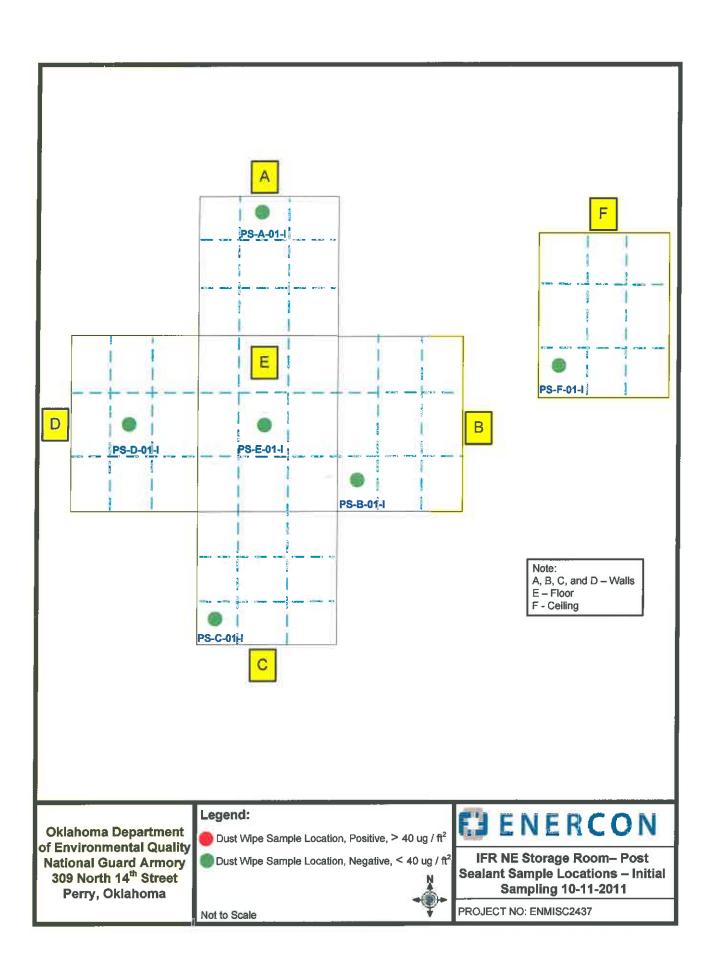
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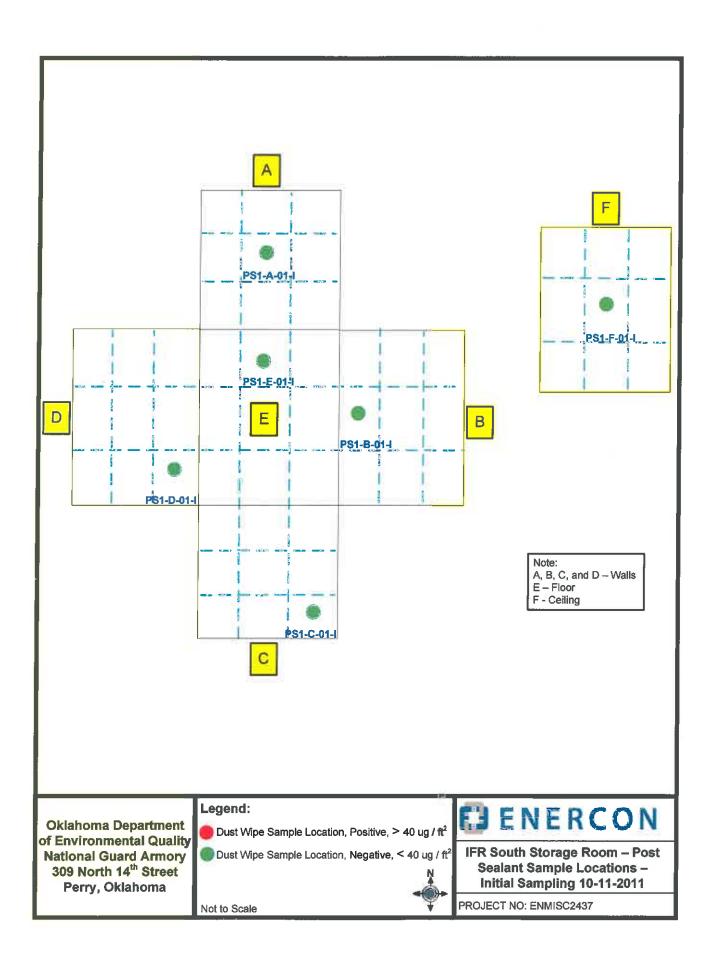
Saturday FedEx Shipping - CALL TO SCHEDUL # Use this activoss for Saturday FedEx andy: 4220 N. Santa Fe Ave., Cidahoms City, CK 73166-8517 Mark Peckage HOLD FOR SATURDAY PYCKUP"

Antology May 2008











## **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry Armory

Location:

Perry, OK

Project No.: N/A

QuanTEM	100				Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
001	P-A-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
002	P-A-02-I	Wipe	Lead	25.3	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
003	P-B-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
004	P-B-02-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
005	P-B-03-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)
006	P-B-04-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
007	P-C-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
008	P-C-02-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
009	P-D-01-I	Wipe	Lead	28.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
010	P-D-02-I	Wipe	Lead	47.7	1 <b>6</b>	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
011	P-D-03-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)
012	P-D-04-I	Wipe	Lead	76.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
013	P-E-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
014	P-E-02-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
015	P-E-03-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
016	P-E-04-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
017	P-F-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



## **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry Armory

Location:

Реггу, ОК

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter		Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	P-F-02-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
019	P-F-03-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
020	P-F-04-!	Wipe	Lead		11,100	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)
021	PS-A-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)
022	PS-B-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
023	PS-C-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
024	PS-D-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
025	PS-E-01-I	Wipe	Lead	411	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
026	PS-F-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
027	PS1-A-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
028	PS1-B-01-I	Wipe	Lead		<16.0	16.	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
029	PS1-C-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
030	PS1-D-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
031	PS1-E-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
032	PS1-F-01-I	Wipe	Lead		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



## Environmental Chemistry Analysis Report

**QuanTEM Set ID:** 

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry Armory

Location:

Репу, ОК

Project No.:

Units

**OuanTEM** 

ID

Client ID

Matrix

**Parameter** 

Results

Reporting

Limits

Date/Time

Analyzed

Method

Authorized Signature:

Rebecca Šparks, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

# Supplemental Report QAQC Results

QA ID: Test: 9278

Lead

Date: Matrix: 10/13/2011

Wipe

Lab Number:

200704

Approved By:

Rebecca Sparks

Date Approved: 10/13/2011

Notes:

### Blank Data:

Type of Blank	Blank Value
ICB	Ö
FCB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit	
ccv	4.5	5	5.5	
FCV	4.5	4.84	5.5	
ICV	0.8	1.17	1.2	
RLVS	0.256	0.34	0.384	

### **Duplicate Data:**

### Recovery Data:

Sample Number	4	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	•	0.000	5.449	6.015	110.4	6.013	110.4	0.0
MS-W2	•	0.000	5.525	6.085	110.1.	6.145	111.2	1.0
MS-W1		0.000	5.460	6.128	112.2	6.027	110.4	1.7

Authorized Signature:

Rebecca Sparks, Analyst



2033 Heritage Park Drive, Oxishoms City, OK 73120-7502 (899) 922-4656 (405) 765-7272 Fat: (405) 755-2058

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20070L THE USE SEPTIME USE COST Leb 78

> Project Name: We've distributions Acct # Company Name: ENVICON SOVICES, INC

Project Number:

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Please Print Legibly LEGAL DOCUMENT

Sample Matrix

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1 / Date 33 PA Held

W - Posts Chips

A-Sol

146.0

Sample Directofton

Sample Number

Project Location:

TURNAMOUND THE	Sterne Dey	V 26 Hour	3-Day	2-dey	
S - Paint Chips	C - Surface / Dust Wigner	D - Sept. Militarity 2006	E - Air Cesadia	F-OBM (SPECIFY)	

CONTACT INFORMATION	Mushell	Senscum	Mars. 722-7693	Report Results VIA (OHOOGIE ONE):	FAX	CLINETEM WASSAM	

LARDICE TOTALIN

Saburday FodEx Shipping - CALL TO SCHEDALE
Use this address for Saturday FedEx only: 4220 M. Sarta Fe Ave., Oktahoms City, CK 73105-8617
Mark Package WOLD FOR SATURDAY PICKUP\*

181-5-01-1 PS1-F-01-T Resistant May 2008

2033 Heritage Park Drive, Oktehoma City, OK 73120-7502 (800) 822-4650 (405) 755-7272 Fax (405) 755-2058 Markethanism som

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Project Marne:

Acct.

COMPANY NETTO: ENOTION SIVILES, IM.

Project Location: LELLY, O.K.

Project Number: Unitie Reginsolved

Service Sa

LEGAL DOCUMENT Please Print Legibly		TURNAROUND TIME	Steme Day	and Hour	3-Dey	S-chay
Sample Meth: Codes	A. Sof	B - Paint Chips	C - Surface / Dust Withde	D - Buck littlecetterspotes	E-Air Cospette	F - Other (SPECIFY)

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2033 Heritage Park Drive, Oklahoma Ciby, OK 73120-7502 (800) 822-4669 (405) 735-7272 Fac: (405) 755-2058 www.quantbase.com

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Lab No. 200704

Project Name: Percy Arman

Acct #

Company Werre: [ Hellon SIVIUS, ]

Project Location:

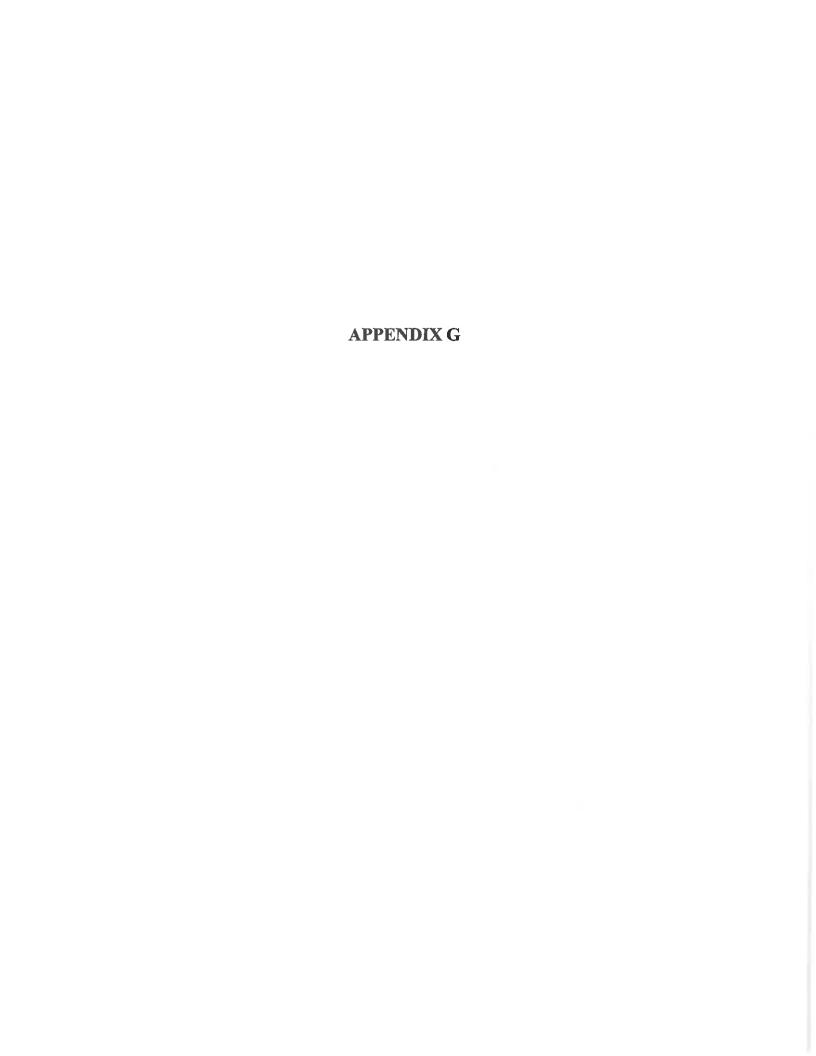
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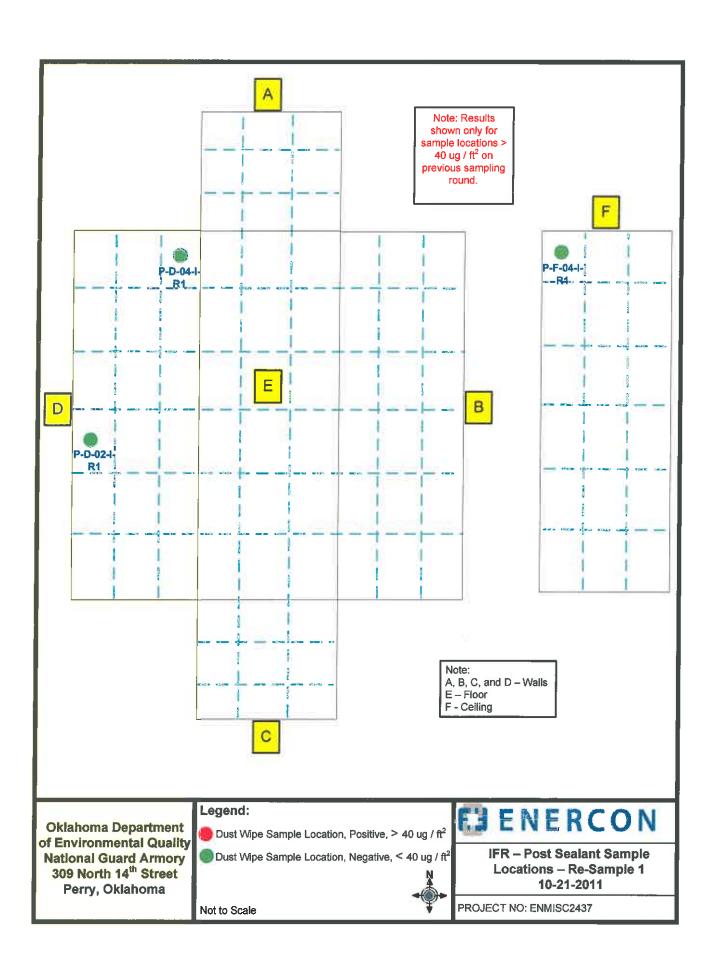
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	Sample Number Sample	16. P-E-04-I	1-10-37	-02-I	703-I		++	23 R-7-01-7	3	25. 15-6-01-1		28. R.1-R-01-1	151-C-0	30. PSZ-D-01-T

Saturday FedEx Shipping - CALL TO SCHEDULE
Use this address for Saturday FedEx only: 4220 N. Sariss Fe Ave., Oldshoms City, CK 73105-8617
Mark Package HOLD FOR SATURDAY PYCKUA\*

Rentident shap 2006







## **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

201014

Date Received:

10/21/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

ВМ

Date of Report:

10/24/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Perry Armory

Location:

Perry, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	P-D-02-I-R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/24/11 13:00	W EPA 7420 (1)
002	P-D-04-I-R1	Wipe	Lead	21.4	16	ug/sq. Ft.	10/24/11 13:00	W EPA 7420 (1)
003	P-F-04-I-R1	Wipe	Lead	<16.0	16	ug/sq. Pt.	10/24/11 13:00	W EPA 7420 (1)

Authorized Signature:

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

## Supplemental Report **QAQC** Results

QA ID:

9309

Test:

Lead

Date:

10/24/2011

Matrix:

Wipe

Lab Number:

201014

Approved By:

Benton Miller Date Approved: 10/24/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	
ICB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit	
ccv	4.5	5.2	5.5	
FCV	4.5	5.1	5.5	
ICV	0.8	1.2	1.2	
RLVS	0.256	0.345	0.384	

### **Duplicate Data:**

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD	
MS-W1	0.000	5.438	5.212	95.8	5.176	95.2	0.7	

Authorized Signature:



2033 Hertlage Perk Drive, Oklahama Cily, OK 73120-7502 (800) 822-1850 (405) 755-7272 Fax (405) 755-2058

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710/06 This Box for Lab Use Only Lab No.

> Project Name: www.quantem.com

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ACCA.\*

COMPANY NAMES ENVICES, IN

Pers, Of

Project Location:

Project Number.

Please Print Legibly LEGAL DOCUMENT CONTACT INFORMATION TURNAROUND TIME Report Results VIA (CHOOSE ONE): Thoma: 405-727-769 Harrsca M James Marshel QuenTEM WebSite **Зате** Day X 24 Hour 3-Day 5-day FAX C - Surface / Dust Wipes D - Buth Macellandous Sample Matrix F - Other (SPECIFY) Codes E - Air Caaselle B - Paint Chips A - 500 ساگا / دسچ ואל ו כוד ואן Utilite Requested p bs/5n ្ស គ្រួយ សម្ភាគិល % W/ Mdd Analysia ᄱ स्पेतकार विद्यावह 146 x2 Sample Description - P-02-I-R1 -04-1-RI Sample Number 1-1-ho-

E-Malk

Ravielen: May 2006

Saturday PedEx Shipping - CALL TO SCREDULE Use fils address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oldshoma City, OK 73105-851? Mark Package HOLD FOR SATURDAY PICKUP